DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		88888888888888888888888888888888888888		GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
--	--	--	--	--

KK KK KK KK

KK KK KK KK KK KK

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	88888888 88888888 88 88 88 88	GGGGGGG GG GG GG GG GG GG GG GG GG GG G	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	\$	KK KK KK KK KK KK KK KK KK KK
		\$			

DIV

VAX-11 Bliss-32 V4.0-742 CDEBUG. SRCJDBGTASK. B32;1

Page 1

MODULE DBGTASK (IDENT = 'V04-000') =

BEGIN

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WRITTEN BY Edward freedman

December, 1983

MODULE FUNCTION

This module contains all routines that parse and execute all commands related to DEBUG's multi-tasking support for ADA.

```
16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
DBGTASK
V04-000
                                                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
CDEBUG. SRCJDBGTASK. B32:1
                                                                                                                                                                                                                                                                                         Page
                                                      REQUIRE 'SRC$:DBGPROLOG.REQ';
REQUIRE 'SRC$:DBGEXT.REQ';
                              ! %((REQUIRE OR LIB IN DBGPROLOG? -tbs))%
                                                      LIBRARY 'LIBS: DBGGEN.L32':
                                                                                                                                                 ! %((NEEDED FOR FAULT_EXC AND TRAP_EXC -tbs))%
                                                    FORWARD ROUTINE

DBG$CONV_TASK_NUM_VALUE : NOVALUE,

DBG$CONV_TASK_VALUE NUM : NOVALUE,

DBG$NEXECUTE_SET_TASK : NOVALUE,

DBG$NEXECUTE_SHOW_TASK : NOVALUE,

DBG$NPARSE_SET_TASK : NOVALUE,

DBG$NPARSE_SHOW_TASK : NOVALUE,

DBG$NPARSE_SHOW_TASK : NOVALUE,

DBG$NPARSE_SHOW_TASK : NOVALUE,

DBG$NPARSE_SHOW_TASK : NOVALUE,
                                                                                                                                                    Converts an ADA task number to the corresponding task value. Converts an ADA task value to the corresponding task number. Execute the SET TASK command Execute the SHOW TASK command Parse the SET TASK command Parse the SHOW TASK command Y((-tbs))%
                                                               LOCAL_ROUT_NAME;
                                                     DBGSGET TEMPMEM,
DBGSNMATCH,
                                                                                                                                                 ! Allocates and lists dynamic storage
! Counted string matching routine
! Interface to Address Expression Interpreter
! Converts ASCII input to integer
! Signal a syntax error in command
! Shows current runframe nesting
                                                               DBG$NPARSE EXPRESSION,
DBG$NSAVE DECIMAL INTEGER,
DBG$SYNTAX ERROR : NOVALUE,
                                                               DBGSTRACEBACK : NOVALUE:
                                                      EXTERNAL ROUTINE ADASDBGEXT : WEAK ADDRESSING MODE (GENERAL): %((WHERE WILL THESE BE DECLARED? -tbs))% IF NOT %DECLARED (ADAS_FACILITY) ! To be declared in STARLET.REQ
                                                                                                                                               ! %((-tbs))%
                                                      LITERAL ADAS_FACILITY = 49 ;
                                                     EXTERNAL
                                                               DBG$GB_LANGUAGE : BYTE,
DBG$GB_RADIX : VECTOR[3, BYTE],
DBG$RUNFRAME: BLOCK [,BYTE];
                                                                                                                                                 ! Code for language setting ! Radix settings
                                                                                                                                                 ! User runframe
                                                  1 LITERAL
                                                                        These literals are used both to identify the ADVERB node type and to index into a bitvector to indicate the presence of particular ADVERB
                                                                        or NOUN nodes.
                                                               TASK TASK LIST
TASK ACTIVE
TASK ALL
TASK CALLS
TASK DEADLOCK
TASK FULL
TASK HOLD
TASK NOHOLD
TASK PRIORITY
TASK RELEASE
TASK RESTORE
TASK STATE
                                                                                                                                                      NOUN literal
                                                                                                                                                      ADVERB (qualifier) literals
                                                                                                                                                   (synonym for 'RELEASE')
                                                                TASK_STATE
```

```
DBGTASK
V04-000
                                                                                                                                                                                                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742
LDEBUG.SRCJDBGTASK.B32:1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (2)
                                                                                                            TASK_STATISTICS
TASK_TERMINATE
TASK_VISIBLE
TASK_MAX_QUAL
                                                                                                                                                                                                                       = 11.
                                                    Max value.
                                                                                            MACRO
                                                                                                                           These two macros are used to test for conflicting qualifiers and parameters in a given command. The test is on bits in a flag word which are set as the syntax tree is built. The macros depend on the bit position being given by literals of the form TASK_xxx.
                                                                                                            CONFLICT (flags) [] = (0 + _conflict( flags, %REMOVE(%REMAINING) ) GTR 1) %,
                                                                                                            _conflict (flags) [list] = ( .flags < %name('TASK_', list), 1, 0> ) %;
                                                                                                                                                                                                                     = UPLIT BYTE (%ASCIC 'ACTIVE'),
= UPLIT BYTE (%ASCIC 'ALL'),
= UPLIT BYTE (%ASCIC 'CALLS'),
= UPLIT BYTE (%ASCIC 'DEADLOCK')
= UPLIT BYTE (%ASCIC 'FULL'),
= UPLIT BYTE (%ASCIC 'HOLD'),
= UPLIT BYTE (%ASCIC 'NOHOLD'),
= UPLIT BYTE (%ASCIC 'PRIORITY')
= UPLIT BYTE (%ASCIC 'RELEASE'),
= UPLIT BYTE (%ASCIC 'RESTORE'),
= UPLIT BYTE (%ASCIC 'STATE'),
= UPLIT BYTE (%ASCIC 'STATISTICS
= UPLIT BYTE (%ASCIC 'TERMINATE'),
= UPLIT BYTE (%ASCIC 'TERMINATE'),
                                                                                            BIND
                                                                                                           DBG$CS_ACTIVE
DBG$CS_ALL
DBG$CS_CALLS
DBG$CS_DEADLOCK
DBG$CS_FULL
DBG$CS_HOLD
DBG$CS_NOHOLD
DBG$CS_PRIORITY
DBG$CS_RELEASE
DBG$CS_RESTORE
DBG$CS_STATE
DBG$CS_STATE
DBG$CS_TERMINATE
DBG$CS_VISIBLE
                                                                                                                                                                                                                                                                                                                                                                                           Qualifier names
                                                                                                                                                                                                                                                                                                       'CALLS'),
'DEADLOCK'),
'FULL'),
'HOLD')
'NOHOLD')
'PRIORITY'),
'RELEASE'),
'RESTORE'),
'STATE')
'STATISTICS'),
'TERMINATE'),
'VISIBLE'),
                                                                                                                                                                                                                       = UPLIT BYTE (%ASCIC 'READY')
= UPLIT BYTE (%ASCIC 'RUNNING')
= UPLIT BYTE (%ASCIC 'SUSPENDED')
= UPLIT BYTE (%ASCIC 'TERMINATED'),
                                                                                                            DBG$CS_READY
DBG$CS_RUNNING
DBG$CS_SUSPENDED
DBG$CS_TERMINATED
                                                                                                                                                                                                                                                                                                                                                                                           STATE names
                                                                                                                                                                                                                      = UPLIT BYTE (1, dbg$k_left_parenthesis),

= UPLIT BYTE (1, dbg$k_right_parenthesis),

= UPLIT BYTE (%ASCIC ':'),

= UPLIT BYTE (1, dbg$k_comma),

= UPLIT BYTE (1, dbg$k_car_return),

= UPLIT BYTE (1, dbg$k_equāl),

= UPLIT BYTE (1, dbg$k_slash);
                                                                                                            dbg$cs_left_paren
dbg$cs_right_paren
DBG$CS_COLON
dbg$cs_comma
                                                                                                                                                                                                                                                                                                                                                                                                                         Punctuation
                                                                                                            dbg$cs_cr
dbg$cs_equal
dbg$cs_slash
```

```
DBGTASK
V04-000
                                                                                                                                                                       Page
                     DBG$CONV_TASK_NUM_VALUE
                                ISBITL 'DBGSCONV_TASK_NUM_VALUE'
GLOBAL ROUTINE DBGSCONV_TASK_NUM_VALUE ( TASK_NUMBER, TASK_VALUE ) : NOVALUE =
    1467890123456789012345667890
1147890123456789012345667890
                     FUNCTION
                                           This routine converts an ADA task number to the corresponding task value. It calls the ADA run time system to perform the actual
                                           conversion.
                                   INPUT
                                           TASK_NUMBER - Address of a longword containing the task number to be
                                                      converted.
                                  OUTPUT
                                           TASK_VALUE - Address of a longword to contain the resulting task value.
                                     BEGIN
                                .TASK_VALUE = %x'ODECOADA':
                                                                           %((TO BE REPLACED WITH SOME REAL CODE -tbs))%
                                     RETURN 0:
                                     END:
                                                                           ! end of DBG$CONV_TASK_NUM_VALUE
                                                                                                    .TITLE
                                                                                                              DBGTASK
                                                                                                    .PSECT
                                                                                                              DBG$PLIT, NOWRT.
                                                                                                                                     SHR, PIC.0
                                                                                 00000 P.AAA:
00007 P.AAB:
00008 P.AAC:
                                                56
                                                                                                              <6>\ACTIVE\
                                                                           44454F2555445555555
                                                                      13468E0223346223489ACDD
                                                                                                    .ASCII
                                                                                                               <5>\CALLS\
                                                           4444444544554455
                                                                                 00011 P.AAD:
                                                                                                               <8>\DEADLOCK\
                                                                                 0001A P.AAE:
0001F P.AAF:
00024 P.AAG:
                                                                                                               <4>\FULL\
                                                                                                              <4>\HOLD\
                                                      445555444E0D
                                                                                                               <6>\NOHOLD\
                                                                                        P.AAH:
                                                                                                               <8>\PRIORITY\
                                                                                        P.AAI:
                                                                                                               <7>\RESTORE\
                                                                                        P.AAJ:
                                                                                                              <5>\STATE\
<10>\STATISTICS\
                                                                                        P.AAK:
                     53
                                                                                        P.AAL:
                                                                                        P.AAM:
                                                                                                               <9>\TERMINATE\
                                                                                         P. AAN:
                                                                                                               <7>\VISIBLE\
                                                                                         P.AAO:
                                                                                                               <5>\READY\
                                                                                                              <7>\RUNNING\
                                                                                         P.AAP:
                                                                                         P.AAQ:
                                                                                                               <9>\SUSPENDED\
                                                                                        P.AAR:
                                                                                                              <10>\TERMINATED\
                                                                                        P.AAS:
                                                                                        P.AAT:
                                                                                        P.AAV:
P.AAV:
P.AAX:
                                                                                                              <1>1:1
```

```
DBGTASK
VO4-000
                                                                                                                                                                                                                                                                                                                                                           16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 EDEBUG.SRCJDBGTASK.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (3)
                                                                                      DBG$CONV_TASK_NUM_VALUE
                                                                                                                                                                                                                                                                                          2F 01 00096 P.AAY: .BYTE 1, 47
                                                                                                                                                                                                                                                                                                                                                                  DBG$CS_ACTIVE=
DBG$CS_ALL=
DBG$CS_ALL=
DBG$CS_CALLS=
DBG$CS_DEADLOCK=
DBG$CS_DEADLOCK=
DBG$CS_FULL=
DBG$CS_HOLD=
DBG$CS_NOHOLD=
DBG$CS_PRIORITY=
DBG$CS_RELEASE=
DBG$CS_RESTORE=
DBG$CS_STATISTICS=
DBG$CS_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P. AAH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P. AAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P.AAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P. AAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P. AAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P.AAQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P.AAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P.AAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P.AAU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P. AAW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.AAX
                                                                                                                                                                                                                                                                                                                                                                                                                                                         P.AAY

DBG$GET_TEMPMEM

DBG$NMATCH, DBG$NPARSE_EXPRESSION

DBG$NSAVE_DECIMAL_INTEGER

DBG$SYNTAX_ERROR

DBG$TRACEBĀCK, DBG$GB_LANGUAGE

DBG$GB_RADIX, DBG$RUNFRAME

ADA$DBGEXT
                                                                                                                                                                                                                                                                                                                                                                                                                .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                  .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                  .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                 .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                  .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                                  . WEAK
                                                                                                                                                                                                                                                                                                                                                                                                                  .PSECT
                                                                                                                                                                                                                                                                                                                                                                                                                                                           DBG$CODE, NOWRT, SHR, PIC, 0
                                                                                                                                                                                                                                                                                                         0000 00000
00 00002
04 0000A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          : 1348
: 1367
: 1372
                                                                                                                                                                                                                                                                                                                                                                                                                   .ENTRY
                                                                                                                                                                                                                                                                                                                                                                                                                                                           DBG$CONV_TASK_NUM_VALUE, Save nothing #233573082, aTASK_VALUE
                                                                                                                                                                                                                    BC ODECOADA
                                                                                                                                                                                                                                                                                                                                                                                                                  MOVL
                                                                                                                                                                                                                                                                                                                                                                                                                 RET
 ; Routine Size: 11 bytes.
                                                                                                                                                                   Routine Base: DBG$CODE + 0000
```

DBGTASK VO4-000	DBG\$CONV_TASK_VALUE_NUM	16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRCJDBGTASK.B32;1
172 173 174 175 176 177 178 180 181 183 184 185 186 187 188 189 190 191 192 193 194 195 197	1373 %SBTTL 'DBG\$CONV_TASK_VALUE 1374 GLOBAL ROUTINE DBG\$CONV_TASK 1375 FUNCTION This routine convert number. It calls the conversion. 1379 conversion. INPUT TASK_VALUE - Address converted. 1385 OUTPUT TASK_NUMBER - Address number. 1388 1 1389 1 1390 1 1391 2 BEGIN 1392 2 1393 2 BEGIN 1394 2 BEGIN 1394 2 BEGIN 1395 2 BEGIN 1396 2 BEGIN 1396	
	08 BC	0000 00000 .ENTRY DBG\$CONV_TASK_VALUE_NUM, Save nothing 2A D0 00002 MOVL #42, aTASK_NUMBER 04 00006 RET

Page 6 (4)

; Routine Size: 7 bytes, Routine Base: DBG\$CODE + 000B

; Routine Size: 3 bytes. Routine Base: DBG\$CODE + 0012

```
N 5
16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
DBGTASK
V04-000
                                                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742
EDEBUG.SRCJDBGTASK.B32:1
                                      DBG$NEXECUTE_SHOW_TASK
                                                         *SBTTL 'DBG$NEXECUTE_SHOW_TASK'
GLOBAL ROUTINE DBG$NEXECUTE_SHOW_TASK ( VERB_NODE : REF DBG$VERB_NODE ) :
       NOVALUE =
                                                             FUNCTION
                                                                            This routine executes the SHOW TASK command. It accepts the address
                                                                           of a Verb Node as input and executes the corresponding command.
                                                             INPUTS
                                                                            VERB_NODE - A pointer to the Verb Node for the SHOW TASK command
                                                                                                   to be executed. The Verb Node and its attached Adverb
and Noun Nodes contain all information picked up during
the parsing of the command.
                                                             OUTPUTS
                                                                            NONE
                                                                Semantics of the various qualifiers and parameters for a simple SHOW TASK command or a SHOW TASK /CALLS (i.e. not /DEADLOCK or /STATISTICS). In this chart, 1 and 0 indicate presence or absence of the qualifiers and parameters in the command:

SHOW TASK [ /CALL ] [ /PRI ] [ /STATE ] [ /HOLD ] [ /ALL ] [ TASK_LIST,, ]

TASK SET is the set of tasks the command is applied to where

XVISIBLE = visible task

T LIST = tasks in the task list

ALL = all existing tasks %((terminated as well? -tbs))%

PSH = all existing tasks matching ( /PRI and /STATE and /HOLD )

T LIST PSH = tasks in the task list matching ( /PRI and /STATE and /HOLD )

ALGORITHM indicates the logic to implement the command, where

S = SHOW TASK [ GET REGISTER, DBG$TRACEBACK ]

NS = NEXT TASK SHOW TASK [ GET REGISTER, DBG$TRACEBACK ]

GS = GET PRIORITY GET_STATE SHOW TASK [ GET_REGISTER, DBG$TRACEBACK ]

The [ GET_REGISTER, DBG$TRACEBACK ] is done when /CALLS is specified.
                                       1460
1461
1462
1463
                                      1464
1465
1466
1467
1468
1469
                                                                  /PRI or
/STATE or
                                                                  /HOLD
                                                                                               /ALL
                                                                                                                 TASK_LIST
                                                                                                                                                       TASK SET
                                                                                                                                                                                            AL GOR ! THM
                                                                                                                                                                                                                                  FAILURES
                                                                                                                                                                                            S ...
                                                                                                                                                                                                                                  %((-tbs))%
                                                                                                                                                       XVISIBLE
                                                                                                                                                       T LIST
                                                                                                                                                                                            NS . . .
                                                                                                                                                                                           S...
                                                                                                                                                       T_LIST
                                                                                                                                                                                            NS . . .
                                                                                                                                                       P5H
                                                                                                                                                                                           GS...
                                                                                                                                                       T_LIST PSH
                                                                                                                                                                                           NS...
                                                                                                                                                       T_LIST PSH
                                                                                                                                                                                            GS...
                                                                   This results in four different sequences as follows:
                                                                  P := /PRI or /STATE or /HOLD
                                                                                                                                             A := /ALL
                                                                                                                                                                        T := TASK_LIST
                                                                                                                 ==> NS...
                                                                         + "PA)"T
                                                                                                                 ==> GS...
                                                                  PT
                                                                                                                 ==> 5..
```

==> 5

P"A"T = "(P+A+T)

Page

(6)

VO

Page

CALL_ADA -- Calls the ADA run time system via the DEBUG External Interface. It assumes that a DBGEXT INIT has been performed to bind name DBGEXT\$\$CONTROL_BLOCK to a real control block. It optionally sets other fields with the values

```
DBGTASK
VO4-000
                                                                                           16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                                            VAX-11 Bliss-32 V4.0-742
EDEBUG.SRCJDBGTASK.B32;1
                      DBG$NEXECUTE_SHOW_TASK
                                                              .dbg$runframe [dbg$v_at_break] OR
                       1665
                                                              .dbg$runframe [dbg$v at step_end]
exc_type = fault_exc
   466
467
468
470
471
473
475
476
477
478
                      1666
                                                   THEN
                                                                                                                            ! %(( NEED TO LIB DBGGEN -tbs))%
                      1667
                                                   ELSE
                                                                   exc_type = trap_exc;
                      1668
                      1669
1670
                                                  1671
                      1672
1673
1674
                                                  END
                                             ELSE
                                                                                                                                       ! ADA has the register set
                      1675
                                                   DBG$TRACEBACK (.DBGEXT$$CONTROL_BLOCK [DBGEXT$L_PC], DBGEXT$$CONTROL_BLOCK [DBGEXT$L_FP],
                      1676
1677
                                                                        trap_EXC, call_level ):
                                                                                                                                       ! %((FAULT or TRAP? -tbs))%
                      1678
1679
                                             END % ;
   480
481
483
484
485
486
487
488
491
493
494
497
                      1680
                      1681
1682
1683
                                       LOCAL
                                             ADA_CONTROL : REF DBGEXT$CONTROL BLOCK.
                                             ADVERB NODE : REF DBG$ADVERB NODE.
                      1684
1685
                                             NOUN_NODE : REF DBG$NOUN_NODE.
                                             CALLS VALUE : INITIAL (0)
                                                                                                                 ! Link field to next adverb or noun node.
                      1686
1687
1688
                                            PRIORITY VALUE : INITIAL (0),
STATE VALUE : INITIAL (0),
QUALIFIERS : BITVECTOR [TASK_MAX_QUAL + 1]
                      1689
1690
                                                                                                                 ! Qualifier state vector.
                                                               INITIAL (BYTE (REP TASK_MAX_QUAL / XBPUNIT + 1 OF (0)));
                      1691
                      1692
1693
1694
                                            Walk the tree and set bits in the qualifier state vector. Also pick up the values of the adverb nodes representing the parameters supplied to the /CALLS, /PRIORITY, and /STATE qualifiers. This
                      1695
                                             algorithm will cause the last value to superceed earlier values, when multiple values are given.
                      1696
   498
499
500
501
502
503
504
505
506
507
508
510
                                            .VERB_NODE [DBG$L_VERB_OBJECT_PTR] NEQ 0
                                                                                                                ! Check for an explicit task list.
                      1698
                                       THEN
                                       QUALIFIERS [TASK_TASK_LIST] = TRUE;
LINK = VERB_NODE [DBG$L_VERB_ADVERB_PTR];
WHILE ...LINK NEQ O DO
                      1699
1700
                                                                                                                   Get link to the adverb nodes.
                      1701
1702
1703
                                                                                                                   Chain down the adverb nodes.
                                             BEGIN
                                            ADVERB_NODE = ..LINK;
QUALIFIERS [ .ADVERB_NODE [DBG$B_ADVERB_LITERAL] ] = TRUE;
SELECTONE .ADVERB_NODE [DBG$B_ADVERB_LITERAL] OF
                      1704
                      1705
1706
1707
1708
                                                  SET
[ TASK CALLS ] :
    CACLS VALUE = .ADVERB_NODE [DBG$L_ADVERB_VALUE];
[ TASK_PRIORITY ] :
                      1709
1710
1711
1712
1713
                                                  PRIORITY VALUE = .ADVERB_NODE [DBG$L_ADVERB_VALUE];
                                                        STATE_VALUE = .ADVERB_NODE [DBG$L_ADVERB_VALUE];
                      1714
                                             LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
                                                                                                                 ! Link to next node.
    516
517
                      1716
    518
519
520
521
                                             Check for conflicting qualifiers and parameters. %((what about /fULL ? -tbs))%
                                           CONFLICT (QUALIFIERS, (CALLS, DEADLOCK, STATISTICS))
                                                                                                                          ! Only one action allowed.
```

```
DBGTASK
VO4-000
                                                                                 16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                                VAX-11 Bliss-32 V4.0-742 [DEBUG.SRC]DBGTASK.832:1
                    DBGSNEXECUTE_SHOW_TASK
                                                   PSH = .QUALIFIERS [TASK_PRIORITY] OR .QUALIFIERS [TASK_STATE] OR .QUALIFIERS [TASK_HOLD];
   SELECTONE TRUE OF
                                                   SET
                                                   (P + "PA)"T ==> NS...
(PSH OR (NOT PSH AND ALL)) AND NOT LIST ]:
                                                        (P + "PA)"T
                                                        BEGIN
                                                        LOCAL
                                                       FIRST TASK;

DBGEXT_INIT (DBGEXT = .ADA CONTROL
PRIORITY = .PRIORITY_VALUE,
STATE = .STATE_VALUE,
HOLD = .QUALIFIERS [TASK_HOLD] );

FIRST TASK = DO NEXT_TASK (0);
IF FIRST_TASK EQLU 0 ! null tas
                                                                                                      ! null task ==> EXIT
                                                        THEN
                                                             SIGNAL (%((NO TASKS MATCH RESTRICTION -tbs))%);
                                                             BEGIN
                                                             DO SHOW TASK ():
IF .QUALIFIERS [TASK_CALLS]
                                                                                                      %((HEADER CONTROL NEEDED -tbs))%
                                                                  DO_SHOW_CALLS (.CALLS_VALUE);
                                                        UNTIL .FIRST_TASK EQLU DO_NEXT_TASK (); ! cycled through all tasks
                                                        END:
                                                                                 ==> GS...
                                                  [ PSH AND LIST ] :
                                                       BEGIN
                                                        DBGEXT_INIT (DBGEXT = .ADA_CONTROL);
                                                             Walk down the chain of noun nodes. Pick up the pointer to %((THE PRIMARY DESC -tbs)
                                                             and the value of the task. Then do the SHOW_TASK.
                                                        LINK = VERB NODE [DBG$L_VERB_OBJECT_PTR];
WHILE ..LINK NEG O DO
                                                                                                                          ! Get link to the noun nodes.
                                                                                                                          ! Chain down the noun nodes.
                                                             BEGIN
                                                             LABEL
                                                                  CHECK_PSH;
                                                             NOUN_NODE = ..LINK;
                                                             <task_value> = (.NOUN_NODE [DBG$L_NOUN_VALUE]) [<task_value_field>]; %((need stru
                                                                  Check PRIORITY, STATE, and HOLD
                                                             CHECK PSH:
BEGIN
                                                                  SELECT TRUE OF
                                                                       SET
                                                                       [ .QUALIFIERS [TASK_PRIORITY] ] :
BEGIN
CALL_ADA (FUNCTION = DBGEXT$K_GET_PRIORITY);
                                                                            IF . ADA_CONTROL [DBGEXT$L_PRIGRITY] AND .PRIORITY_VALUE EQL O
```

```
DBGTASK
                                                                              16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
                                                                                                           VAX-11 Bliss-32 V4.0-742 EDEBUG. SRCJDBGTASK. B32; 1
                   DBGSNEXECUTE_SHOW_TASK
   LEAVE CHECK_PSH;
                                                                         END:
                                                                    [ .QUALIFIERS [TASK_STATE] ] :
                                                                         BEGIN

CALL ADA (FUNCTION = DBGEXTSK GET STATE):

IF .ADA_CONTROL [DBGEXTSV_STATE] AND .STATE_VALUE EQL O
                                                                              LEAVE CHECK_PSH:
                                                                    [ .QUALIFIERS [TASK_HOLD] ] :
                                                                         BEGIN
                                                                         CALL ADA (FUNCTION = DBGEXTSK GET STATE);
IF NOT .ADA CONTROL [DBGEXTSV HOLD]
                                                                              LEAVE CHECK_PSH;
                                                                         END:
                                                                    TES:
                                                                DO_SHOW TASK ():
IF .QUACIFIERS [TASK_CALLS]
                                                                                                  ! <task_value> %((-tbs))%
                                                                    DO_SHOW_CALLS (.CALLS_VALUE);
                                                           LINK = NOUN_NODE [DBG$L_NOUN_LINK];
                                                                                                                     ! Link to next node.
                                                           END:
                                                     END:
                                                                              ==> S..
                                                 I NOT PSH AND LIST ] :
                                                     BEGIN
                                                      DBGEXT_INIT (DBGEXT = .ADA_CONTROL);
                                                           Walk down the chain of noun nodes. Pick up the pointer to %((THE PRIMARY DESC -tbs)
                                                          and the value of the task. Then do the SHOW_TASK.
                                                      LINK = VERB NODE [DBG$L_VERB_OBJECT_PTR];
WHILE ..LINK NEQ O DO
                                                                                                                       Get link to the noun nodes.
                                                                                                                     ! Chain down the noun nodes.
                                                           BEGIN
                                                           NOUN_NODE = ..LINK;
                                                           <task_value> = (.NOUN_NODE [DBG$L_NOUN_VALUE]) [<task_value_field>]; %((need stru
                                                           DO_SHOW TASK ();
IF .QUACIFIERS [TASK_CALLS]
                                                                                                  ! <task_value> %((-tbs))%
                                                           DO SHOW CALLS (.CALLS VALUE);
LINK = NOUN NODE [DBG$L NOUN LINK];
                                                                                                                     ! Link to next node.
                                                           END:
                                                      END:
                                                      "P"A"T = "(P+A+T) ==> S
                                                   NOT (PSH AND ALL AND LIST) ] :
                                                      BEGIN
```

DBGTASK VO4-000	DBG\$NEXE	ECUTE_SHOW_TAS	K				16-Sep- 14-Sep-	1984 02:43 1984 12:17	:49	VAX-11 Bliss-32 V4.0-742 Par [DEBUG.SRC]DBGTASK.832;1	ge 16 (6)
693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709	1892 1893 4 1894 1895 1896 1899 1900 1901 2 1903 1904 1905 1906 1907 1908	E TES; RETURN O; END;	TES	END;	SHOW_	! %((0?	-tbs))%	CONTROL);		EED GLOBAL SYMBOL FOR TVISIBLE -tbs))T	
	50	59	5E 58 59 56 50 51 59 03 5A 07 6E 0A 56 01	04 04 04 04 04 04	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FFC 000 000 000 000 000 000 000 000	002 005 007	SUBL2 CLRQ CLRQ CLRQ CLRQ CLRQ MOVL TSTL BEGL BISB2 MOVAB TSTL BEGL MOVZBL BRBCQ MOVL BRBCQ BRCQ MOVL BRBCQ BRCQ MOVL BRBCQ BRCQ BRCQ BRCQ BRCQ BRCQ BRCQ BRC	CALLS QUALS VERB 8 (R8) 1 (R8) 4 (R8) 4 (R8) 4 (R8) 6 (LINE 7 S (LINE 7 S (LINE 7 S (ADVE 4 S ADVE 4 S ADVE 5 S 4 (ADVE 6 S 4 (ADVE 6 S 4 (ADVE 6 S 6 S 6 S 6 S 6 S 6 S 6 S 6 S 6 S 6 S	NEXECUTE SHOW TASK, Save R2,R3,R4,R5,- 7,R8,R9,R10,RT1 SP RITY VALUE 5,VACUE 6,FIERS NODE, R8 RUALIFIERS (), ADVERB_NODE RB_NODE), R1 RB_NODE), R3 FERB_NODE), W3 FERB_NODE), W7 FERB_NODE), W10 FERB_NODE), W10 FERB_NODE), W10 FERB_NODE), STATE_VALUE RB_NODE), STATE_VALUE R1, QUALIFIERS, R0 R1, QUALIFIERS, R1	1437 1496 1697 1699 1700 1701 1703 1704 1707 1708 1709 1710 1711 1712 1714 1701 1720
	50 51 52	59 59 59	OA		00000000000000000000000000000000000000	91 000 91 000 9E 000 EF 000 EF 000 D0 000	39 35 35 42 44 48 68: 46 78: 958	MOVL BRB CMPB BNEQ MOVAB BRB EXTZV ADDL2 EXTZV ADDL2 CMPL	(ADVE	RB NODE), #10	

.

DBGTASK VO4-000		DBG\$NEXECUTE_SHOW_TASK		16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page 17 (6)
		04 000000006	00028158 000 59	0D 15 00066 8F DD 00068 PUSHL #164184 01 FB 0006E CALLS #1, LIB\$SIGNAL 03 E1 00075 88: BBC #3, QUALIFIERS, 98 18 DD 00079 PUSHL #27 02 11 0007B BRB 108	1722 1727 1729
	28	00000000G	00 57 59 6E	02 11 0007B BRB 10\$ 0A DD 0007D 9\$: PUSHL #10 01 FB 0007F 10\$: CALL\$ #1, DBG\$GET TEMPMEM 50 D0 00086 MOVL RO. ADA CONTROL 04 E1 00089 BBC #4, QUALIFIERS, 11\$ 00 2C 0008D MOVC5 #0, (SP), #0, #40, (ADA_CONTROL)	1731 1742 1745
02	A7	OC 20	00 A7 67 A7	31 FO 00093 INSV #49, #0, #12, 2(ADA CONTROL)	1714
		00000000G	00 28 59	01 FB 000A8	1746 1749 1757
	28	39	59 6E	00 2C 000BB MOVC5 #0, (SP), #0, #40, (ADA_CONTROL)	1761
02	A7	0C 20 18 000000006	00 A7 67 A7 00 07	07 8A 000CD BICB2 #7. 24(ADA CONTROL) 57 DD 000D1 PUSHL ADA CONTROL 01 FB 000D3 CALLS #1. ADASDBGEXT	1762
		000000006	07 00 01 04	00 FB 000DD 12\$: CALLS #0. LIB\$SIGNAL A7 F9 000F4 13\$: BLBC 4(ADA CONTROL), 14\$	1764 1765
		000000006	00	04 000E8 RET 00 FB 000E9 14\$: CALLS #0, LIB\$SIGNAL 04 000F0 RET 07 EF 000F1 15\$: EXTZV #7, #1, QUALIFIERS, R0	1767 1736 1778
	50 51	59 59	01 01 50	07 EF 000F1 15\$: EXTZV #7, #1, QUALIFIERS, R0 0A EF 000F6 EXTZV #10, #1, QUALIFIERS, R1 51 C8 000FB BISL2 R1, R0	1778
	52	59	01 50	06 EF 000FE EXTZV #6, #1, QUALIFIERS, R2 52 C8 00103 BISL2 R2, R0	
	51	59	01 51	02 EF 00106 EXTZV #2, #1, QUALIFIERS, R1 50 CA 0010B BICL2 RO, R1	1784
	52	59	51 01 51 01	04 000F0 07 EF 000F1 15\$: EXTZV #7, #1, QUALIFIERS, R0 0A EF 000F6 51 C8 000FB 06 EF 000FE 52 C8 00103 02 EF 00106 53 EXTZV #6, #1, QUALIFIERS, R2 54 C8 00108 55 CA 0010B 56 CA 0010B 57 CA 0010B 58 BISL2 59 CA 00116 50 CB 0010E 50 CB 0010E 51 D1 00119 03 13 0011C 51 D1 00119 05 BEQL 52 TATLE BRW 53 BRW 54 BRW 55 BRW 55 BRW 55 BRW 56 BRW 57 BRW 57 BRW 58 BRW	9 9 9 6 9 9
	28	00	6E	12F 31 0011E BRW 338 00 2C 00121 168: MOVC5 WO, (SP), WO, W40, (ADA_CONTROL)	1792
02	A7	00	00 A7 50 60 A7 60 00	31 FO 00127 INSV #49, #0, #12, 2(ADA CONTROL) CF 9F 0012D #0VAR DRGEXTSPRINT ROUTINE, 32(ADA CONTROL)	0
		10	60 A7	A7 9E 00133 MOVAB 24(ADA CONTROL), RO 04 88 00137 BISB2 M4 (RO) 6E 00 0013A MOVL PRIORITY_VALUE, 28(ADA_CONTROL) 02 88 0013E BISB2 M2 (RO) 5B FO 00141 INSV STATE_VALUE, MO, M4, 2(RO)	
02	AO	04	00	5B FO 00141 INSV STATE_VALUE, #0, #4, 2(RO)	

DBGTASK V04-000	DE	IG\$NEXECUTE_SHOW	_TASK			16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page 18 (6)
	51 60	59 01	60 01 14 67 52		01 06 51 03 67 67	88 00147 EF 0014A EXTZV #6. #1. QUALIFIERS. R1 F0 0014F INSV R1. #20. #1. (R0) B0 00154 MOVW #3. (ADA CONTROL) 9E 00157 MOVAB 4(ADA_CONTROL), R2 D4 0015B CLRL (R2) D4 0015D CLRL 16(ADA_CONTROL)	1793
		00000	0000G 00		050A6A5705060AE700657	FO 0014F BO 00154 MOVW #3, (ADA CONTROL) 9E 00157 MOVAB 4(ADA_CONTROL), R2 04 0015B CLRL (R2) D4 0015D CLRL 16(ADA CONTROL) DD 00160 PUSHL ADA_CONTROL FB 00162 CALLS #1, ADASDBGEXT EB 00169 FB 0016C CALLS #0, LIB\$SIGNAL EB 00173 178: BLBS (R2), 18\$ FB 00176 CALLS #0, LIB\$SIGNAL DO 0017D 188: MOVL 16(ADA_CONTROL), FIRST_TASK 9E 00182 12 00186 FB 00188 CALLS #0, LIB\$SIGNAL	1794
		00000	000G 00		07 00 04	12 00186 BNEQ 198 FB 00188 CALLS #0, LIB\$SIGNAL B0 0018F 198: MOVW #4, (ADA_CONTROL) D4 00192 CLRL (R2)	1796 1799
		00000 00000 6E	9000G 00 07		65050600050500000000000000000000000000	DD 00194 FB 00196 CALLS #1, ADA\$DBGEXT E8 00190 FB 001A0 E8 001A7 208: BLBS (R2), 218 FB 001AA E1 001B1 218: BBC #3, QUALIFIERS, 298 B0 001B5 MOVW #15, (ADA_CONTROL)	1800 1802
		00000	07			E1 001B1 21\$: BBC	
		00000	0000G 00		92	D1 001D0	
		OF 00000	80	000000006	07 00 63 1 00 04 04	13 001D3 BEQL 23\$ FB 001D5 CALLS #0, LIB\$SIGNAL D1 001DC 23\$: CMPL (R2), #2 12 001DF BNEQ 27\$ E0 001E1 BBS #5, DBG\$RUNFRAME+73, 24\$ E8 001E9 BLBS DBG\$RUNFRAME+72, 24\$ E1 001F0 BBC #4, DBG\$RUNFRAME+73, 25\$ D0 001F8 24\$: MOVL #2, EXC_TYPE 11 001FB BRB 26\$ D0 001FD 25\$: MOVL #1, EXC_TYPE BB 00200 26\$: PUSHL DBG\$RUNFRAME+56	
			50	0401 000000006 000000006	01 8F 00	11 001FB D0 001FD 25\$: MOVL #1, EXC TYPE BB 00200 26\$: PUSHR #^M <ro.r10> DD 00204 PUSHL DBG\$RUNFRAME+56 DD 0020A PUSHL DBG\$RUNFRAME+64 11 00210 BRB 28\$ DD 00212 27\$: PUSHL CALLS_VALUE</ro.r10>	
		00000	0000G 00	5C 64	03 01 80 00 05 01 07 07 06 05 07	DD 00216 PUSHL 92 (ADA CONTROL) DD 00219 PUSHL 100 (ADA CONTROL) FB 0021C 288: CALLS #4. DBG\$TRACEBACK B0 00223 298: MOVW #3. (ADA_CONTROL) D4 00226 CLRL (R2)	1804
		00000	00006 00		57 01	DD 00228 PUSHL ADA_CONTROL CALLS #1, ADASDBGEXT	•

DBGTASK VO4-000		DBG\$NEXECUTE_SHOW_TASK	(16-Sep-1984 02:43:49 VAX-11 BLiss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32:1	Page 19
		000000006 000000006 10	07	04 62 00 63 FF40	E8 00231 BLBS RO, 30\$ FB 00234 CALLS #0, LIBSSIGNAL E8 0023B 30\$: BLBS (R2), 31\$ FB 0023E CALLS #0, LIBSSIGNAL D1 00245 31\$: CMPL FIRST_TASK, 16(ADA_CONTROL) 13 0024A BEQL 32\$ 31 0024C BRW 19\$	
	51	59 51	01 51 50 01	00 51 51	EF 00250 338: EXTZV #0, #1, QUALIFIERS, R1 D2 00255	1780 1800
	28	00	6E	67	00264 345: MUVC3 WU, (SP), WU, W4U, (ADA_CUNTRUL)	1810
02	A7	00 20	00 A7 53 63 56	0156 000 67 31 0000v Cf 18 A7 07 08 A8 66	FO 0026A 9E 00270 9E 00276 8A 0027A 9E 0027D 9E 0027D DS 00281 DS 00283 GR 00285 MOVAB MOV	181 181
			52	66	00 00286 368: MOVL (LINK), NOUN_NODE 95 00289 TSTB QUALIFIERS	1820 183
		00000000G 00000000G	67 63 00 07 00 07	04 A7 00 04 A7 00 10 A7 07 07	18 0028B BGEQ 398 B0 0028D MOVW #12, (ADA_CONTROL) 8A 00290 BICB2 #7, (R3) DD 00293 PUSHL ADA_CONTROL FB 00295 CALLS #1, ADASDBGEXT	183
		000000006	04	1C A7	FB 0029F	1834
		50	59 67 63	50 0A 07 07	13 002B7 E1 002B9 398: BBC #10, QUALIFIERS, 428 B0 002BD #0VW #7, (ADA_CONTROL) BA 002C0 BICB2 #7, (R3)	1839 184
		00000000G 00000000G	00 07 00 07 00 04	04 A7 00 1A A7 5B	EB 0029C FB 0029F EB 0029F EB 0029F EB 002A CALLS	1842
		50	59 67 63	20 06 07 07	13 002E5 13 002E7 BEQL 45\$ E1 002E9 42\$: BBC #6. QUALIFIERS. 46\$ B0 002ED MOVW #7. (ADA_CONTROL) BA 002F0 BICB2 #7. (R3) DD 002F3 PUSHL ADA_CONTROL FB 002F5 CALLS #1. ADASDBGEXT	1847 1849
		00000000G	07	57 01 50	BO 002ED MOVW #7. (ADA_CONTROL) BA 002FO BICB2 #7. (R3) DD 002F3 PUSHL ADA_CONTROL FB 002F5 CALLS #1. ADA\$DBGEXT E8 002FC BLBS R0, 43\$ FB 002FF CALLS #0, LIB\$SIGNAL	

DBGTASK V04-000	DBG\$NEXECUTE,	SHOW_TASK		M 6 16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page 20 (6)
	03	000000000	7 04 A7 0 00 7 04	EB 00306 438: BLBS 4(ADA_CONTROL), 44\$ FB 0030A	1850
			7 04 A	E0 00311 448: BBS #4 26(ADA_CONTROL), 468 31 00316 458: BRW 568 B0 00319 468: MOVW #4 (ADA_CONTROL) D4 0031C CLRL 4(ADA_CONTROL) DD 0031F PUSHL ADA_CONTROL	1857
				DD 0031F PUSHL ADA_CONTROL FB 00321	
		00000000	7 04 A	E1 00350 485: BBC #5, QUALIFIERS, 568	1858 1860
		00000000	04 A	BO 00341 MOVW #15, (ADA CONTROL) D4 00344 CLRL 4(ADA CONTROL) DD 00347 PUSHL ADA_CONTROL FB 00349 CALLS #1, ADA\$DBGEXT E8 00350 BLBS R0, 49\$ FB 00353 CALLS #0, LIB\$SIGNAL	1860
		00000000	0 01 7 50 0 04 2 04 A	F8 0035A 498: BLRS 4(ADA CONTROL), 508	
	(0 2 0 4 A	FB 00364	
		000000006	0 8 000000006 0 0	E0 00371 BBS #5, DBG\$RUNFRAME+73, 51\$ E8 00379 BLBS DBG\$RUNFRAME+72, 51\$ E1 00380 BBC #4, DBG\$RUNFRAME+73, 52\$ D0 00388 518: MOVL #2, EXC TYPE	
		5	0	11 0038B D0 0038D 52\$: MOVL #1, EXC TYPE BB 00390 53\$: PUSHR #^M <r0,r10> DD 00394 PUSHL DBG\$RUNFRAME+56</r0,r10>	
			5, 01	11 003A0 BRB 55\$ DD 003A2 54\$: PUSHL CALLS_VALUE DD 003A4 PUSHL #1 DD 003A6 PUSHL 92(ADA CONTROL) DD 003A9 PUSHL 100(ADA CONTROL)	
		000000006 0	5C A 64 A 0 04 6 08 A	11 003A0 DD 003A2 54\$: PUSHL CALLS_VALUE DD 003A4 PUSHL #1 DD 003A6 PUSHL 92(ADA_CONTROL) DD 003A9 PUSHL 100(ADA_CONTROL) FB 003AC 55\$: CALLS #4, DBG\$TRACEBACK 9E 003B3 56\$: MOVAB 8(R2), LINK	1863
51	59		5 C A A O O O O O O O O O O O O O O O O O	EF 003BA 578: EXTZY #0, #1, QUALIFIERS, R1 CA 003BF BICL2 R0, R1 D1 003C2 CMPL R1, #1	1863 1816 1868
28	00	6	00C	20 VUJCA JOB: MUTCJ WU, (SP), WU, MTO, (ADA_CONTROL)	1870
02 A7	00		0 3 7 0000V CI 7 08 A	003CF F0 003D0	1875
			66	D5 003E4 59%: TSTL (LINK)	1875 1876
		5	2 60	U4 UUJED KEI	1878

DBGTASK VO4-000	DBG\$NEXECUTE_SH	OW_TASK			N 6 16-Sep- 14-Sep-	1984 02:43:49 1984 12:17:52	VAX-11 Bliss-32 V4.0-742 [DEBUG.SRC]DBGTASK.B32;1	Page 21
		67	04	04 B0 A7 D4 57 D0	0 003EC 4 003EF	MOVU #4 CLRL 4(PUSHL AD CALLS #1 BLBS R0 CALLS #0 BLBS 4(CALLS #0	(ADA CONTROL) ADA CONTROL) A CONTROL	: 1881
	000	000006 00		01 F8	0 003F2 0 003F4 B 003FB	PUSHL AD	A_CONTROL . ADASDBGEXT . 618	
	000	000006 00	04	00 FB	B 003FF	CALLS #0	ADA CONTROL) 428	
	72 000	00000G 00	•	00 FB	B 00409	CALLS #0 BBC #3	LIBSSIGNAL QUALIFIERS, 708	1882
		67	04	50 E8 00 F8 00 F8 00 F8 07 B0 47 D4	0 00414 4 00417	MOVW #1 CLRL 4(LIBSSIGNAL QUALIFIERS, 708 5, (ADA CONTROL) ADA CONTROL A CONTROL A CONTROL A ADASOBGEXT	1882 1884
	000	000006 00		Z	0 0041A B 0041C B 00423 B 00426	CLRL 4(PUSHL AD CALLS #1	A CONTROL ADASOBGEXT	
	000	00000G 00 00 02	04 04	50 E8 00 FB A7 E8 A7 D1 07 13	00426 00420 638: 1 00431 3 00435	A111. P	, 63\$, LIB\$SIGNAL ADA_CONTROL), 64\$ ADA_CONTROL), #2 \$	
	000	00000G 00 02	04	00 FB	B 00437	CALLS #0	ADA CONTROL). #2	•
	OF 000	00000G 00	0000000G	05 E0 00 E8 04 E1	0 00444	BNEQ 68 BBS #5 BLBS DB	DBG\$RUNFRAME+73, 65\$ G\$RUNFRAME+72, 65\$ DBG\$RUNFRAME+73, 66\$	•
	05 000	00000G 00 50		04 E1	D 0045B 65%:	MONT NS	DBG\$RUNFRAME+73, 66\$	
		50	0401 00000000G 00000000G	03 11 01 D0 8F BB 00 DD 00 DD	1 0045E 0 00460 66\$: B 00463 67\$: 0 00467 0 00460 1 00473	MOVL #1 PUSHR #^ PUSHL DB	S EXC TYPE M <ro,r10> G\$RUNFRAME+56 G\$RUNFRAME+64 \$</ro,r10>	6 0 0 0
				5A DD	n nn475 488.	PUSHL CA	LLS_VALUE	• • •
			5 C 6 4	A7 DD A7 DD 04 FB A2 9E F57 31	0 00477 0 00479 0 00470 B 0047F 69\$:	PUSHL 92 PUSHL 10 CALLS #4 MOVAB 8((ADA_CONTROL) 0(ADA_CONTROL) , DBG\$TRACEBACK R2), LINK \$	
	000	00000G 00 56	08	04 FB	B 0047F 695: E 00486 705:	MOVAB 8(DBG\$TRACEBACK R2), LINK	188
9	59	01	,	02 EF 51 D2	00486 70\$: 1 0048A 5 0048D 71\$: 2 00492 A 00495 5 00498 2 0049D A 004A0 2 004A3	BRW 59 EXTZV #2 MCOML R1 BICLZ R1 EXTZV #0 MCOML R2 BICLZ R2 MCOML R0 CMPL R0 BEQL 72 RET	. #1, QUALIFIERS, R1 .R1 .R0 .#1, QUALIFIERS, R2 .R2 .R0 .R0 .R0	1889 1876 1890
5	59	51 50 01		51 CA	00495 00498	BICLZ R1 EXTZV #0	RO M1, QUALIFIERS, R2	
		52 50 50		52 D2	2 0049D A 004A0	EXTZV #2 MCOML R1 BICL2 R1 EXTZV #0 MCOML R2 BICL2 R2 MCOML R0 CMPL R0 BEQL 72	, R2 , R0	
		01		50 DZ	004A6 3 004A9	CMPL RO	· #1	
	28 00	6E		00 20	6 004AB	RET MOVC5 #0	. (SP), #0, #40, (ADA_CONTROL)	1892
	00		0000	00 20 67 31 F0	004B1			•
		20 A7 18 A7 67	0000v	07 8A	A 004BE	BICB2 #7	. 24(ADA_CONTROL)	1893
		37	04	31 F0 CF 9E 07 8A 04 B0 A7 D4 57 D0 01 F8	4 004C5 0 004C8	INSV #4 MOVAB DB BICB2 #7 MOVW #4 CLRL 4(PUSHL AD CALLS #1	9, #0, #12, 2(ADA_CONTROL) GÉXTSPRINT_ROUTINE, 32(ADA_CONTROL) , 24(ADA_CONTROL) , (ADA_CONTROL) ADA_CONTROL) A_CONTROL , ADASOBGEXT	1073
	000	00000G 00		01 FB	B 004CA	CALLS #1	. ADASDBGEXT	•

DBGTASK V04-000	DBG\$NEXECUTE_SHOW_TASK			1	8 7 6-Sep- 4-Sep-	1984 02:43: 1984 12:17:	49 VAX-11 Bliss-32 V4.0-742 52 [DEBUG.SRC]DBGTASK.B32;1	Page 22 (6)
	00000000G 72	07 00 07 00 59 67	00 03 0F	E8 004D1 FB 004D4 E8 004D8 FB 004DF E1 004E6 B0 004EA	738:	BLBS	RO, 738 #0. LIB\$SIGNAL 4(ADA_CONTROL), 748 #0. LIB\$SIGNAL #3. QUALIFIERS, 828 #15. (ADA_CONTROL) 4(ADA_CONTROL) ADA_CONTROL	1894 1896
	00000000G	04 00 07 00 00 00 02 04	57 01 50 00	DD 004F0 FB 004F2 E8 004F9 FB 004F0 E8 00503		BBC MOVW CLRL PUSHL CALLS BLBS CALLS CMPL BEQL CALLS CMPL BNEQ BBS	ADA_CONTROL #1. ADASDBGEXT R0. 758 #0. LIB\$SIGNAL 4(ADA_CONTROL), 76\$ 4(ADA_CONTROL), #2 76\$	0 0 0 0 0 0 0 0 0
	000000006	00 02 04	07 00 A7 31	13 0050B FB 0050D D1 00514 12 00518	76\$:	BEQL CALLS CMPL BNEQ	4(ADA_CONTROL), #2	0 0 0 0
	OF 00000000G O5 00000000G	00 08 00 00 50	G 00 04 02	E0 0051A E8 00522 E1 00529 D0 00531	778:	BBC MOVL	#5. DBG\$RUNFRAME+73, 77\$ DBG\$RUNFRAME+72, 77\$ #4. DBG\$RUNFRAME+73, 78\$ #2. EXC_TYPE 79\$	
		00000000 00000000 00000000	01 8F 6 00 G 00	DO 00536 BB 00539 DD 00530 DD 00543)	MOVL PUSHR PUSHL PUSHL	#1, EXC TYPE #^M <ro,r10> DBG\$RUNFRAME+56 DBG\$RUNFRAME+64</ro,r10>	# 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	00000000G	5C 64	5A 01 A7 A7 04	DD 0054B DD 0054F DD 00552	80\$:	PUSHL	CALLS_VALUE #1 92(ADA_CONTROL) 100(ADA_CONTROL) #4, DBG\$TRACEBACK	1908

; Routine Size: 1373 bytes, Routine Base: DBG\$CODE + 0015

; 710 1909 1

1965

768

SET TASK /ACTIVE. Construct an Adverb Node and link it in.

DBG\$NMATCH(.INPUT_DESC, DBG\$CS_ACTIVE, 2)]:

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```
16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
DBGTASK
VO4-000
                                                                                                                                 VAX-11 Bliss-32 V4.0-742 [DEBUG.SRC]DBGTASK.B32;1
                       DBG$NPARSE_SET_TASK
    769
770
                                                           BEGIN
                                                          ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_ACTIVE;
                                                        SET TASK /ALL. Construct an Adverb Node and link it in.
    778
779
780
781
                                                       DBG$NMATCH( .INPUT_DESC, DBG$CS_ALL, 2 ) ]:
                                                           BEGIN
                                                           ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
                        1980
                                                          LINK = ADVERB NODE [DBG$L ADVERB LINK]:
ADVERB NODE [DBG$B ADVERB LITERAL] = TASK ALL;
                        1981
                        1985
                       1986
1987
                                                        SET TASK /VISIBLE. Construct an Adverb Node and link it in.
    789
    790
791
                        1988
                                                       DBG$NMATCH( .INPUT_DESC, DBG$CS_VISIBLE, 1 ) ]:
                        1989
    792
793
794
795
                        1990
                                                           ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
                       1991
1992
1993
1994
                                                           .LINK = .ADVERB_NODE
                                                          LINK = ADVERB NODE [DBG$L ADVERB LINK]:
ADVERB_NODE [DBG$B_ADVERB_LITERAC] = TASK_VISIBLE;
    796
797
                                                           END:
                       1995
    798
799
800
                       1996
                       1997
                                                       SET TASK /PRIORITY=(n). Construct an Adverb Node and link it in.
                       1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2013
2019
2020
2021
2023
    801
                                                       DBG$NMATCH( .INPUT_DESC, DBG$CS_PRIORITY, 1 ) ]:
    802
                                                           BEGIN
                                                          ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
.LINK = .ADVERB_NODE;
    804
                                                          LINK = ADVERB NODE [DBG$L ADVERB LINK];
ADVERB NODE [DBG$B ADVERB LITERAL] = TASK_PRIORITY;
    805
    806
                                                           IF DBG$NMATCH( .INPUT DESC, DBG$CS_COLON, 1 )
OR DBG$NMATCH( .INPUT_DESC, DBG$CS_EQUAL, 1 )
    808
    809
    810
                                                           THEN
                                                                 IF DBG$NMATCH( .INPUT_DESC, dbg$cs_left_paren, 1 )
                                                                 THEN
                                                                                                                                             %((FIX THIS CAN'T HAVE MULTIPLE PRIO
                                                                      BEGIN
                                                                      DO
    815
                                                                            BEGIN
                                                                            DBGSNSAVE DECIMAL_INTEGER(
INPUT DESC,
PRIORITY);
    816
817
                                                                                                                                             ! read input value
                                                                            IF .PRIORITY GTRU 31
                                                                                                                                             ! %((need priority limit -tbs))%
                                                                                  SIGNAL (DBG$_BITRANGE );
                                                                                                                                             ! %((NEED A BETTER MESSAGE -tbs))%
                                                                             (ADVERB_NODE [DBG$L_ADVERB_VALUE]) <.PRIORITY, 1, 0> = 1; ! set corresponding
                                                                            END
                                                                      WHILE DBG$NMATCH( .INPUT_DESC, dbg$cs_comma, 1 );
If NOT DBG$NMATCH( .INPUT_DESC, dbg$cs_right_paren, 1 )
```

D

			OFFC	00000		.ENTRY	DBG\$NPARSE_SET_TASK, Save R2,R3,R4,R5,R6,-	: 1911
	58A95556E	000000006 000000006 000000006 000000006	00 9E 9E 00	00002 00009 00010 00017 0001E 00025		MOVAB MOVAB MOVAB MOVAB MOVAB	DBG\$NPARSE SET TASK, Save R2,R3,R4,R5,R6,- R7,R8,R9,RT0,RT1 DBG\$SYNTAX ERROR, R11 DBG\$SSYNTAX ERROR, R11 DBG\$NSAVE DECIMAL_INTEGER, R10 LIB\$SIGNAE, R9 DBG\$GET_TEMPMEM, R8 DBG\$C\$_COMMA, R7 DBG\$NMATCH, R6	
54 0	8 AC	04 06	04 C2 04 C1 AC D0 01 DD A7 9F 53 DD 03 FB 50 E8	00026 00026 00034 00038	1\$:	ADDL3 MOVL PUSHL PUSHAB	VERB_NODE_LINK INPUT_DESC, R3 DBG\$CS_SLASH	1951 1956
	66	01	03 FB 50 E8	0003D 0003F 00042 00045		PUSHL CALLS BLBS BRW	R3 #3. DBG\$NMATCH R0. 28	
	4.4	FF70	53 DD	00048 0004A 0004E 00050	28:	PUSHL PUSHAB PUSHL	DBGSCS_ACTIVE	1966
	01		03 FB 50 D1 14 12 03 DD	00053 00056 00058		CALLS CMPL BNEQ PUSHL	#3, DBG\$NMATCH RO, #1 3\$	1968
	68 52 64 54 62	00	01 FB	0005A 0005D 00060		MOVL MOVAB	#1, DBG\$GET TEMPMEM RO, ADVERB NODE ADVERB_NODE, (LINK) 8(R2), LINK	1969
	62	08	CC 11	00063 00067 0006A 0006C	38:	MOVAB MOVB BRB PUSHL	#1, (ADVERB_NODE)	1970 1971 1961 1977
	66 01	FF77	02 DD C7 9F 53 DD 03 FB 50 D1 14 12	0006E 00072 00074 00077		PUSHAB PUSHL CALLS CMPL BNEQ	DBGSCS_ALL R3 #3, DBGSNMATCH R0, #1	
	68		03 DD 01 FB	0007A 0007C 0007E 00081		PUSHL CALLS MOVL	48 #3 #1. DBG\$GET_TEMPMEM RO. ADVERB_NODE	1979
	52 64 54 62	08	50 D0 52 D0 A2 9E 02 90 A8 11 01 DD A7 9F 53 DD 03 FB	00084 00087 00088		MOVAB MOVB BRB	RO, ADVERB NODE ADVERB_NODE, (LINK) 8(R2), LINK #2, (ADVERB_NODE)	1980 1981 1982 1961 1988
	4.4	CF	01 DD A7 9F 53 DD	00090 00092 00095	48:	PUSHL PUSHAB PUSHL	DBGSCS_VISIBLE	1988
	01		03 FB 50 D1 14 12 03 DD	0009A 0009b		CALLS CMPL BNEQ PUSHL	#3. DBG\$NMATCH RO. #1 6\$	1990
	68 52 64 54		03 DD 01 FB 50 DO 52 DO A2 9E 0D 90 85 11	00081 00087 0008B 0008E 00090 00092 00095 00097 0009A 000A1 000A4 000AE 000B1		MOVL MOVL	#1. DBG\$GET TEMPMEM RO. ADVERB NODE ADVERB_NODE, (LINK) 8(R2), LINK #13, (ADVERB_NODE)	1991 1992
	62	08	01 DD A7 9F 53 DD 03 FB 50 D1 14 12 03 DD 01 FB 50 D0 85 D1 00 D0 85 D1 01 DD	000AA 000AE 000B1 000B3	58: 68:	MOVĀB MOVB BRB PUSHL	#13, (ADVERB_NODE)	1993 1993 1961 1999

DBGTASK V04-000	DBG\$NPARSE_SET_TASK		H 7 16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page (28
		98	A7 9F 000B5 PUSHAB DBGSCS_PRIORITY 53 DD 000B8 PUSHL R3 03 FB 000BA CALLS #3. DBG\$NMATCH	ė
		66	A7 9F 000B5 PUSHAB DBGSCS_PRIORITY 53 DD 000B8 PUSHL R3 03 FB 000BA CALLS #3. DBGSNMATCH 50 D1 000BD CMPL R0. #1	
			50 D1 000BD CMPL RO. #1 03 13 000C0 BEQL 7\$ 098 31 000C2 BRW 16\$	
			098 31 00002 BRW 168 03 DD 00005 78: PUSHL #3 01 FB 00007 CALLS #1, DBGSGET_TEMPMEM	2001
		68 52 64 54 62	50 DO 000CA MOVL RO, ADVERB NODE 52 DO 000CD MOVL ADVERB NODE, (LINK) A2 9E 000DO MOVAB 8(R2), LINK 07 90 000D4 MOVB #7, (ADVERB NODE)	\$ 2002
		54 08 62	50 DO 000CA MOVL RO. ADVERB NODE 52 DO 000CD MOVL ADVERB NODE. (LINK) A2 9E 000DO MOVAB 8(R2). LINK 07 90 000D4 MOVB #7, (ADVERB_NODE)	2002 2003 2004 2006
		FE	01 DD 000D7 PUSHL #1 A7 9F 000D9 PUSHAB DBG\$CS_COLON	2006
		66	53 DD 000DC PUSHL R3 03 FB 000DE CALLS #3, DBG\$NMATCH 50 E8 000E1 BLBS R0, 8\$	
		04	01 DD 000E4 PUSHL #1 A7 9F 000E6 PUSHAB DBG\$CS_EQUAL	2007
		66	098 31 000C2	
			50 E9 000EE BLBC RO, 14\$ 01 DD 000F1 85: PUSHL #1 A7 9F 000F3 PUSHAB DBG\$C\$ LEFT PAREN	2009
		FA	01 DD 000F1 88: PUSHL #1 A7 9F 000F3 PUSHAB DBG\$CS_LEFT_PAREN 53 DD 000F6 PUSHL R3 03 FB 000F8 CALLS #3, DBG\$NMATCH 50 E9 000FB BLBC R0, 12\$ 8F BB 000FE 98: PUSHR #*M <r3,sp></r3,sp>	
		66 3B 4008	03 FB 000F8 CALLS #3, DBG\$NMATCH 50 E9 000FB BLBC R0, 12\$ 8F BB 000FE 98: PUSHR #^M <r3,sp></r3,sp>	2015
		6A 1F	6E D1 00105 CMPL PRIORITY, #31	2017
		00028248	09 18 00108 BLEQU 10\$ 8F DD 0010A PUSHL #164424	2019
	00 04	69 A2	01 fB 00110 CALLS #1, LIB\$SIGNAL 6E E2 00113 10\$: BBSS PRIORITY, 4(ADVERB_NODE), 11\$ 01 DD 00118 11\$: PUSHL #1	2020
		0088	01 FB 00110 6E E2 00113 10\$: BBSS PRIORITY, 4(ADVERB_NODE), 11\$ 01 DD 00118 11\$: PUSHL #1 8F BB 0011A PUSHR #^M <r3,r7> 03 FB 0011E CALLS #3, DBG\$NMATCH 50 E8 00121 BLBS R0, 9\$ 01 DD 00124 PUSHL #1</r3,r7>	2022
		66 DA	03 FB 0011E CALLS #3. DBG\$NMATCH 50 E8 00121 BLBS R0. 9\$ 01 DD 00124 PUSHL #1	2023
		FC	01 DD 00124 PUSHL #1 A7 9F 00126 PUSHAB DBG\$CS_RIGHT_PAREN 53 DD 00129 PUSHL R3	. 2023
		66 80	53 DD 00129 PUSHL R3 03 FB 0012B CALLS #3, DBG\$NMATCH 50 E8 0012E BLBS R0, 5\$	
		00028700	8F DD 00131 PUSHL #165840 22 11 00137 BRB 15\$	2025
		6A 1F	O1 FB 00110 6E E2 00113 10\$: BBSS PRIORITY, 4(ADVERB_NODE), 11\$ 01 DD 00118 11\$: PUSHL #1 8F BB 0011A PUSHR #^M <r3,r7> 03 FB 0011E CALLS #3, DBG\$NMATCH 50 E8 00121 BLBS R0, 9\$ 01 DD 00124 PUSHL #1 A7 9F 00126 PUSHL #1 A7 9F 00126 PUSHL #3 03 FB 0012B CALLS #3, DBG\$NMATCH 50 E8 0012E BLBS R0, 5\$ 05 E8 0012E BLBS R0, 5\$ 06 DD 00131 PUSHL #165840 22 11 00137 BRB 15\$ 8F BB 00139 12\$: PUSHR #^M<r3,sp> 02 FB 0013D CALLS #2, DBG\$NSAVE_DECIMAL_INTEGER 04 DD 00143 BLEQU 13\$ 8F DD 00145 PUSHL #16424 01 FB 0014B CALLS #1, LIB\$SIGNAL 6E E2 0014E 13\$: BBSS PRIORITY, 4(ADVERB_NODE), 19\$ 61 11 00153 BRB 19\$</r3,sp></r3,r7>	2030
		00028248	09 18 00143 BLEQU 13\$ 8F DD 00145 PUSHL #164424 01 FB 0014B CALLS #1, LIB\$SIGNAL	2032 2034
	63 04	69	8f DD 00145 PUSHL #164424 01 FB 0014B CALLS #1, LIB\$SIGNAL 6E E2 0014E 13\$: BBSS PRIORITY, 4(ADVERB_NODE), 19\$ 61 11 00153 BRB 19\$	2
	00	00028000	8F DD 00155 14%: PUSHL #164048	2035 2009 2038
		69	8F DD 00155 148: PUSHL #164048 01 FB 0015B 15\$: CALLS #1, LIB\$SIGNAL 79 11 0015E BRB 21\$ 03 DD 00160 168: PUSHL #3	1961 2045

DBGTASK V04-000	DBG\$NPARSE_SET_TASK		1 7 16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page 29
		AC		•
	8	1	A7 9F 00162 PUSHAB DBG\$CS_RESTORE 53 DD 00165 PUSHL R3 03 FB 00167 CALL\$ #3. DBG\$NMATCH 50 D1 0016A CMPL R0. #1 14 12 0016D BNEQ 17\$ 03 DD 0016F PUSHL #3 01 FB 00171 CALL\$ #1, DBG\$GET_TEMPMEM	
	6	3	03 DD 0016F PUSHL #3 01 FB 00171 CALLS #1, DBG\$GET_TEMPMEM	2047
	565	08	01 FB 00171	2048
	6	2	A2 9E 0017A MOVAB 8(R2), LINK 09 90 0017E MOVB #9, (ADVERB_NODE) 79 11 00181 BRB 23\$	2048 2049 2050 1961 2056
		A4	03 DD 00183 178: PUSHL #3 A7 9F 00185 PUSHAB DBG\$CS_RELEASE 53 DD 00188 PUSHL R3	2056
	650	5	53 DD 00188 PUSHL R3 03 FB 0018A CALLS #3. DBG\$NMATCH 50 D0 0018D MOVL R0. R5 55 D1 00190 CMPL R5. #1 0F 13 00193 BEQL 18\$	
	0	1	55 D1 00190 CMPL R5 #1 0F 13 00193 BEQL 18\$ 03 DD 00195 PUSHL #3	2057
		94	03 DD 00195 PUSHL #3 A7 9F 00197 PUSHAB DBG\$CS_NOHOLD 53 DD 0019A PUSHL R3 03 FB 0019C CALLS #3, DBG\$NMATCH	
	60	1	53 DD 0019A PUSHL R3 03 FB 0019C CALLS #3, DBG\$NMATCH 50 D1 0019F CMPL R0, #1 14 12 001A2 BNEQ 20\$ 03 DD 001A4 18\$: PUSHL #3	
	်	3	77 9F 00162 PUSHAB R3 03 FB 00167 CALLS #3, DBG\$NMATCH 14 12 0016D BNEQ 17\$ 03 DD 0016F PUSHL #3 01 FB 00171 CALLS #1, DBG\$GET TEMPMEM 50 D0 00174 MOVL R0, ADVERB_NODE 79 00176 MOVL ADVERB_NODE 79 11 00181 R3 03 PF 00185 PUSHL #3 A7 9F 00185 PUSHAB DBG\$CS_RELEASE 90 00178 MOVB #9 (ADVERB_NODE) 80 DD 00188 CALLS #3, DBG\$NMATCH 80 DD 00190 CMPL R5, #1 81 DBG\$CS_RELEASE 82 DD 00188 CALLS #3, DBG\$NMATCH 80 DD 00191 BEQL 18\$ 90 DD 00191 BEQL 18\$ 90 DD 00192 CALLS #3, DBG\$NMATCH 90 DD 00194 CALLS #3, DBG\$NMATCH 90 DD 00195 PUSHL #3 91 DD 00196 CMPL R5, #1 91 DBG\$CS_NOHOLD 91 DBG\$CS_NOHOLD 91 DBG\$CS_NOHOLD 92 DBG\$CS_NOHOLD 94 DBG\$CS_NOHOLD 95 DBG\$CS_NOHOLD 96 DBG\$CS_NOHOLD 97 DSSNL #3 98 DBG\$CS_NOHOLD 98 DBG\$CS_NOHOLD 99 DSSNL #3 90 DBG\$CS_NOHOLD 90 DBG\$	2059
	6 5 6	08	01 FB 001A6	2060 2061
	6	2	08 90 001B3 MOVB #8, (ADVERB_NODE)	2060 2061 2062 1961 2068
		8F	01 DD 001B8 208: PUSHL #1 A7 9F 001BA PUSHAB DBG\$CS_HOLD 53 DD 001BD PUSHL R3 03 FB 001BF CALLS #3, DBG\$NMATCH	2000
	60	1	53 DD 001BD PUSHL R3 03 FB 001BF CALLS #3, DBG\$NMATCH 50 D1 001C2 CMPL R0, #1 14 12 001C5 BNEQ 22\$ 03 DD 001C7 PUSHL #3	•
	6	8	03 DD 001C7 PUSHL #3 01 FB 001C9 CALLS #1, DBG\$GET_TEMPMEM	2070
	6 5 6	08	01 DD 001B8 20\$: PUSHL #1 A7 9F 001BA PUSHAB DBG\$CS_HOLD 53 DD 001BD PUSHL R3 03 FB 001BF CALLS #3 DBG\$NMATCH 50 D1 001C2 CMPL R0 #1 14 12 001C5 BNEG 22\$ 03 DD 001C7 PUSHL #3 01 FB 001C9 CALLS #1, DBG\$GET TEMPMEM 50 DO 001CC MOVL R0, ADVERB RODE 52 DO 001CF MOVL R0, ADVERB RODE 52 DO 001CF MOVL ADVERB NODE, (LINK) A2 9E 001D2 MOVAB 8(R2) LINK 06 90 001D6 21\$: BRB 25\$ 01 DD 001DB 22\$: PUSHL #1 A7 9F 001DD PUSHAB DBG\$CS_TERMINATE 53 DD 001E2 CALLS #3 DBG\$NMATCH	2071 2072
	6.	2	06 90 00106 MOVB #6, (ADVERB_NODE) 28 11 00109 218: BRB 25\$	2071 2072 2073 1961 2079
		C5	01 DD 001DB 228: PUSHL #1 A7 9F 001DD PUSHAB DBG\$CS_TERMINATE 53 DD 001E0 PUSHL R3	2019
	60	6	OR ED COLES CALLS WE DECEMBATCH	
	6	8	01 DD 001DB 228: PUSHL #1 A7 9F 001DD PUSHAB DBG\$CS_TERMINATE 53 DD 001E0 PUSHL R3 03 FB 001E2 CALLS #3, DBG\$NMATCH 50 D1 001E5 CMPL R0, #1 14 12 001E8 BNEQ 24\$ 03 DD 001EA PUSHL #3 01 FB 001EC CALLS #1, DBG\$GET TEMPMEM 50 D0 001EF MOVL RO, ADVERB NODE 52 D0 001F2 MOVL ADVERB NODE, (LINK) A2 9E 001F5 MOVB #12, (ADVERB_NODE)	2081
	6 5 6	08	01 FB 001EC CALLS #1. DBG\$GET TEMPMEM 50 D0 001EF MOVL RO. ADVERB NODE 52 D0 001F2 MOVL ADVERB_NODE. (LINK) A2 9E 001F5 MOVAB 8(R2), LINK 0C 90 001F9 MOVB #12, (ADVERB_NODE)	2082 2083 2084
	6	2	00 90 001F9 MOVB #12, (ADVERB_NODE)	2084

DBGTASK V04-000	DBG\$NPARSE_SET_TASK	16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32:1					
		05 11 001fc 23\$: BRB 25\$ 53 DD 001fE 24\$: PUSHL R3 01 FB 00200 CALLS #1, DBG\$SYNTAX_ERROR FE32 31 00203 25\$: BRW 1\$ 64 D4 00206 26\$: CLRL (LINK) 01 DD 00208 PUSHL #1 02 A7 9F 0020A PUSHL #3	1961 2091 1956 2097 2099				
	54 08	66 03 FB 0020F CALLS #3, DBG\$NMATCH 46 50 EB 00212 BLBS R0, 28\$ AC 08 C1 00215 ADDL3 #8, VERB_NODE, LINK 04 DD 0021A 27\$: PUSHL #4 68 01 FB 0021C CALLS #1, DBG\$GET_TEMPMEM	2102 2109				
		01 FB 0021C CALLS #1, DBG\$GET TEMPMEM 52 50 D0 0021F MOVL RO, NOUN NODE 64 52 D0 00222 MOVL NOUN NODE, (LINK) 54 08 A2 9E 00225 MOVAB 8(R2), LINK 01 DD 00229 PUSHL #1 52 DD 0022B PUSHL NOUN NODE	2110 2111 2116				
	000000006	FE32 31 00203 258: BRW 18 02 07 07 00 00208 02 A7 9F 0020A 53 DD 0020B 66 03 FB 0020F AC 08 C1 00215 AC 08 C1 00215 AC 08 C1 00216 52 DO 0020E 53 DD 0020B 64 DD 0021A 55 DD 0020B 65 DO 0021F 66 DO 0021F 67 DO 0021F 68 DO 0022F 69 DO 0022F 69 DO 0022F 60 DO 0021F 60 DO 0021F 60 DO 0021F 60 DO 0022F 60 DO 0022B 61 DO 0022B 62 DO 0022B 63 DO 0023B 64 DBG\$CS_CR 65 DO 0020B 65 DO 0022B 66 DO 0020B 67 DUSHL 68 DO 0020B 69 DUSHL 60 DBG\$CB_RADIX, -(SP) 60 DO 0020B 6	2122				
		01 00 00249 PUSHL #1 02 A7 9F 0024B PUSHAB DBG\$CS_CR 53 DD 0024E PUSHL R3 66 03 FB 00250 CALLS #3, DBG\$NMATCH 05 50 E8 00253 BLBS R0, 28\$ 53 DD 00256 PUSHL R3	2124				
		53 DD 00256 PUSHL R3 CALLS #1, DBG\$SYNTAX_ERROR RET	2126				

; Routine Size: 604 bytes, Routine Base: DBG\$CODE + 0572

; 935 2133 1

SHOW TASK /ALL. Construct an Adverb Node and link it in.

[DBG\$NMATCH(.INPUT_DESC, DBG\$CS_ALL, 1)]:

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ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_ALL;
SHOW TASK /CALLS [ = n ]. Construct an Adverb Node and link it in. Pickup the call depth to display. Assume -1 (very large number) if not given explicitly.
DBG$NMATCH( .INPUT_DESC, DBG$CS_CALLS, 1 ) ]:
   BEGIN
   ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
   LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_CALLS;
   IF DBG$NMATCH(.INPUT_DESC, DBG$CS_COLON, 1) !
OR DBG$NMATCH(.INPUT_DESC, DBG$CS_EQUAL, 1)
                                                                             did user give a call depth?
         DBG$NSAVE_DECIMAL_INTEGER(
.INPUT_DESC.
ADVERB_NODE [DBG$L_ADVERB_VALUE])
                                                                             this routine checks for errors
                                                                             read input value
                                                                             store in adverb node
   ELSE
         ADVERB_NODE [DBG$L_ADVERB_VALUE] = -1;
                                                                           ! use default value
   END:
SHOW TASK /DEADLOCK. Construct an Adverb Node and link it in.
DBG$NMATCH( .INPUT_DESC, DBG$CS_DEADLOCK, 1 ) ]:
   BEGIN
   ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
   LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_DEADLOCK;
SHOW TASK /FULL. Construct an Adverb Node and link it in.
DBG$NMATCH( .INPUT_DESC, DBG$CS_FULL, 1 ) ]:
   BEGIN
   ADVERB NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_FULL;
SHOW TASK /HOLD. Construct an Adverb Node and link it in.
DBG$NMATCH( .INPUT_DESC, DBG$CS_HOLD, 1 ) ]:
   BEGIN
```

ADVERB_NODE = DBG\$GET_TEMPMEM (DBG\$K_ADVERB_NODE_SIZE);

.LINK = .ADVERB_NODE;

```
M 7
DBGTASK
V04-000
                                                                                                                          VAX-11 Bliss-32 V4.0-742
LDEBUG.SRCJDBGTASK.B32:1
                      DBG$NPARSE_SHOW_TASK
                                                       LINK = ADVERB NODE [DBG$L ADVERB LINK];
ADVERB NODE [DBG$B ADVERB LITERAL] = TASK HOLD;
  1051
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1073
                                                    SHOW TASK /PRIORITY=(n). Construct an Adverb Node and link it in.
                                                    DBGSNMATCH( .INPUT_DESC, DBGSCS_PRIORITY, 1 ) ]:
                                                       BEGIN
                                                       ADVERB NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
LINK = .ADVERB_NODE;
LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_PRIORITY;
                                                       IF DBG$NMATCH( .INPUT_DESC, DBG$CS_COLON, 1 )
                                                             OR DBG$NMATCH( .INPUT_DESC, DBG$CS_EQUAL, 1 )
                                                             IF DBG$NMATCH( .INPUT_DESC, dbg$cs_left_paren, 1 )
                                                                  BEGIN
                                                                  DO
                                                                        BEGIN
                                                                       DBG$NSAVE_DECIMAL_INTEGER(
INPUT_DESC,
PRIORITY);
                                                                                                                                     ! read input value
   1076
1077
1078
1079
                                                                        IF .PRIORITY GTRU 31
                                                                                                                                     ! %((need priority limit -tbs))%
                                                                             SIGNAL (DBG$ BITRANGE ):
                                                                                                                                     ! %((NEED A BETTER MESSAGE -tbs))%
                                                                        (ADVERB_NODE [DBG$L_ADVERB_VALUE]) <.PRIORITY, 1, 0> = 1; ! set corresponding
  1080
1081
1082
1083
1084
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1086
1087
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1093
1094
1095
1096
1097
1100
1101
                                                                  WHILE DBG$NMATCH( .INPUT_DESC, dbg$cs_comma, 1 );
IF NOT DBG$NMATCH( .INPUT_DESC, dbg$cs_right_paren, 1 )
                                                                        SIGNAL (dbgs_unmtchparn);
                                                                                                              ! Unmatched left parenthesis found.
                                                                  END
                                                             ELSE
                                                                  BEGIN
                                                                  DBG$NSAVE DECIMAL INTEGER (
INPUT DESC.
PRIORITY);
                                                                                                                                     ! read input value
                                                                      .PRIORITY GTRU 31
                                                                                                                         ! %((need a limit -tbs))%
                                                                        SIGNAL (DBGS_BITRANGE );
                                                                                                                          ! %((NEED A BETTER MESSAGE -tbs))%
                                                                  (ADVERB_NODE [DBGSL_ADVERB_VALUE]) <.PRIORITY, 1, 0> = 1;
                                                                                                                                                           ! set corresponding
                                                       ELSE
                                                             SIGNAL (DBG$_NEEDMORE);
                                                       END:
  1102
                                                    SHOW TASK /STATE=(x). Construct an Adverb Node and link it in.
   1104
1105
                                                    DBG$NMATCH( .INPUT_DESC, DBG$CS_STATE, 5 ) ]:
                                                       BEGIN
  1106
                                                       ADVERB_NODE = DBG$GET_TEMPMEM (DBG$K_ADVERB_NODE_SIZE);
                                                       .LINK = .ADVERB_NODE;
```

```
N 7
16-Sep-1984 02:43:49
14-Sep-1984 12:17:52
DBGTASK
VO4-000
                                                                                                                                         VAX-11 Bliss-32 V4.0-742
LDEBUG.SRCJDBGTASK.B32;1
                                                                                                                                                                                                 Page 34 (8)
                         DBGSNPARSE_SHOW_TASK
                                                              LINK = ADVERB_NODE [DBG$L_ADVERB_LINK];
ADVERB_NODE [DBG$B_ADVERB_LITERAL] = TASK_STATE;
   1108
1109
                                                              IF DBG$NMATCH( .INPUT DESC, DBG$CS_COLON, 1 )
OR DBG$NMATCH( .INPUT_DESC, DBG$CS_EQUAL, 1 )
                                                                     IF DBG$NMATCH( .INPUT_DESC, dbg$cs_left_paren, 1 )
                                                                          BEGIN
DO
                                                                                 SELECTONE TRUE OF
                                     %((THIS WILL OVERWRITE ADVERB VALUE WITH THE MOST RECENT STATE OF THE LIST -- MUST BE FIXED -tbs))%

[ DBG$NMATCH( .INPUT DESC, DBG$CS RUNNING, 1 ) ]:

ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_RUNNING;
                                                                                       [ DBG$NMATCH( .INPUT_DESC, DBG$CS_READY, 1 ) ]:
ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_READY;
                                                                                       [ DBG$NMATCH( .INPUT_DESC, DBG$CS_SUSPENDED, 1 ) ]:
ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_SUSPENDED;
                                                                                       [ DBG$NMATCH( .INPUT_DESC, DBG$CS_TERMINATED, 1 ) ]:
                                                                                             ADVERB NODE [DBGSL ADVERB VALUE] = DBGEXTSK_STATE_TERMINATED;
                                                                                          Any other condition is an error.
                                                                                         OTHERWISE 3:
                                                                                             DBG$SYNTAX_ERROR(.INPUT_DESC);
                                                                                       TES
                                                                                 END
                                                                          WHILE DBG$NMATCH( .INPUT_DESC, dbg$cs_comma, 1 );
IF NOT DBG$NMATCH( .INPUT_DESC, dbg$cs_right_paren, 1 )
   1144
1145
1146
1147
1148
1149
1150
1151
1153
1154
1155
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1157
1160
1161
1162
1163
                                                                                 SIGNAL (dbgs_UNMTCHPARN);
                                                                                                                            ! Unmatched left parenthesis found.
                                                                          END
                                                                    ELSE
                                                                          SELECTONE TRUE OF
                                                                                 [ DBG$NMATCH( .INPUT_DESC, DBG$CS_RUNNING, 1 ) ]:
                                                                                       ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_RUNNING;
                                                                                 [ DBG$NMATCH( .INPUT_DESC, DBG$CS_READY, 1 ) ]:
ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_READY;
                                                                                 [ DBG$NMATCH( .INPUT DESC, DBG$CS SUSPENDED, 1 ) ]:
ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_SUSPENDED;
                                                                                 [ DBG$NMATCH( .INPUT_DESC, DBG$CS_TERMINATED, 1 ) ]:
ADVERB_NODE [DBG$L_ADVERB_VALUE] = DBGEXT$K_STATE_TERMINATED;
                                                                                    Any other condition is an error.
   1164
                                                                                   OTHERWISE 1:
```

MOVL PUSHL

PUSHAB

PUSHL

BLBS

PUSHL

PUSHL

CALLS

CMPL

BNEQ

PUSHL

CALLS MOVL

MOVL

MOVB BRB

PUSHL

PUSHL

CALLS

CALLS

MOVL

MOVL

MOVAB MOVB PUSHL

CMPL BNE Q PUSHL

PUSHAB

MOVAB

PUSHAB

BRW

DBG\$CS_SLASH

DBGSCS_ALL

RO 39\$

RO.

RO.

DBG\$NMATCH 2\$

DBG\$NMATCH

ADVERB_NODE, (LINK) 8(R2), LINK #2, (ADVERB_NODE)

DBGSNMATCH

ADVERB_NODE, (LINK) 8(R2), LINK #3, (ADVERB_NODE)

DBGSGET TEMPMEM ADVERB_NODE

DBG\$CS_CALLS

DBGSGET TEMPMEM ADVERB_NODE

04

80

FF79

80

FF7D

08

65

65

65

AC 01

A63 50 50

C63 050 14

C5053005540

02BF

DO

DD

DD 9F

DD

DD

DO

DO 9E 90 11

DD 9F

DD

DD

DO

00042 00045 00048 2\$:

0004A

0004E 00050

00056

00067 0006A 0006C 0006E 00072

VO

2190

2192

2204

DBGTASK VO4-000	DBG\$NPARSE_SHOW_TASK		D B 16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page 37 (8)
	65	0048	8f BB 00090	0
	65 0D	•	8F BB 00090 PUSHR #^M <r3,r6> 03 FB 00094 CALLS #3, DBG\$NMATCH 50 E8 00097 BLBS R0.5\$ 01 DD 0009A PUSHL #1 A6 9F 0009C PUSHAB DBG\$CS_EQUAL</r3,r6>	2210
	48	06	A6 9F 0009C PUSHAB DBG\$CS_EQUAL 53 DD 0009F PUSHL R3 03 FB 000A1 CALLS #3. DBG\$NMATCH 50 E9 000A4 BLBC R0, 7\$	
	65 0A	04	03 FB 000A1 CALLS #3, DBG\$NMATCH 50 E9 000A4 BLBC R0, 7\$ A2 9F 000A7 58: PUSHAB 4(ADVERB_NODE)	2214
	68	•	53 DD 000AA PUSHL R3 02 FB 000AC CALLS #2, DBG\$NSAVE_DECIMAL_INTEGER	
	04 A2		87 11 000AF 68: BRB 18 01 CE 000B1 78: MNEGL #1, 4(ADVERB_NODE)	2216
		83	81 11 00085 BRB 18 01 DD 00087 88: PUSHL #1 A6 9F 00089 PUSHAB DBG\$CS_DEADLOCK	2216 2185 2222
	65 01		53 DD 000BC PUSHL R3 03 FB 000BE CALLS #3, DBG\$NMATCH	•
	01		50 D1 000C1 CMPL RO, #1 14 12 000C4 BNEQ 9\$	2224
	67		03 DD 000C6 PUSHL #3 01 FB 000C8 CALLS #1, DBG\$GET TEMPMEM 50 DO 000CB MOVE RO. ADVERB NODE	2224
	67 52 64 54 62	08	01 FB 000C8	2225 2226
	62		04 90 000D5 MOVB #4, (ADVERB_NODE) 90 11 000D8 BRB 3\$ 01 DD 000DA 9\$: PUSHL #1	2225 2226 2227 2185 2233
		80	01 DD 000DA 98: PUSHL #1 A6 9F 000DC PUSHAB DBG\$CS_FULL 53 DD 000DF PUSHL R3	. 2233
	65 01		53 DD 000DF PUSHL R3 03 FB 000E1 CALLS #3, DBG\$NMATCH 50 D1 000E4 CMPL R0, #1	•
	67		14 12 000E7 BNEQ 10\$ 03 DD 000E9 PUSHL #3 01 FB 000EB CALLS #1, DBG\$GET TEMPMEM MOVL RO, ADVERB NODE 52 DO 000F1 MOVL ADVERB NODE, (LINK) A2 9E 000F4 MOVAB 8(R2), LINK 05 90 000F8 MOVB #5, (ADVERB_NODE) BRB 6\$ 01 DD 000FD 10\$: PUSHL #1	2235
	67 52 64 54 62		50 DO OOOEE MOVL RO, ADVERB NODE 52 DO OOOF1 MOVL ADVERB_NODE, (LINK)	2236
	54	08	03 DD 000E9	2236 2237 2238 2185 2244
		91	05 90 000f8	2244
	65 01	,	01 DD 000FD 10\$: PUSHL #1 A6 9F 000FF PUSHAB DBG\$C\$_HOLD 53 DD 00102 PUSHL R3 03 FB 00104 CALS #3, DBG\$NMATCH 50 D1 00107 CMPL R0 #1 14 12 0010A BNE9 11\$	
	01		50 D1 00107 CMPL R0 #1 14 12 0010A BNEQ 11\$	22/4
	67		03 DD 0010C PUSHL #3 01 FB 0010E CALLS #1, DBG\$GET TEMPMEM 50 D0 00111 MOVL RO, ADVERB NODE	2246
	67 52 64 54 62	08	52 DO 00114 MOVL ADVERB_NODE, (LINK) A2 9E 00117 MOVAB 8(R2), LINK	2247 2248
	62		01 FB 0010E	2247 2248 2249 2185 2255
		90	14 12 000E7 03 DD 000E9 01 FB 000EB 50 DO 000EE 50 DO 000EE 50 DO 000F1 A2 9E 000F4 05 90 000F8 B2 11 000FB 01 DD 000FB 01 DD 000FB 01 DD 000FF 05 DD 00102 A6 9F 000FF 03 FB 00104 CALLS #3, DBG\$NMATCH CMPL R0 A1 15 BNE Q B	2233
	65		03 FB 00127 CALLS #3, DBG\$NMATCH	•

DBGTASK V04-000	DBG\$NPARSE_SHOW_TASK			16-Sep-1 14-Sep-1	984 02:43:4 984 12:17:5	9 VAX-11 Bliss-32 V4.0-742 2 EDEBUG.SRCJDBGTASK.B32;1	Page 3
		01	50	D1 0012A 13 0012D 31 0012F	CMPL R BEQL 1 BRW 2		•
			0095	31 0012F 00 00132 128:	BRY 2	0 #1 2\$ 1\$ 1. DBG\$GET_TEMPMEM	226
		67	03 01	DD 00132 128: FB 00134 D0 00137	PUSHL #	1. DBG\$GET TEMPMEM	225
		64 54 62	08 A2	DO 0013A	MOVE A	DVERB_NODE, (LINK)	225
		62	08 A2 07 01	9E 0013D 90 00141 DD 00144	MOVB #	1. DBG\$GET TEMPMEM 0. ADVERB NODE DVERB_NODE, (LINK) (R2), LINK 7. (ADVERB_NODE)	225 225 226 226
		45	0048 8F	BB 00146	PUSHR #	^M <r3,r6></r3,r6>	. 220
		10	0048 8F 03 50 01 06 A6	FB 0014A EB 0014D	BLBS R	3. DBGSNMATCH Q. 138	224
			06 A6	DD 00150 9F 00152	PUSHAB DI	BGSCS EQUAL	226
		65	03	DD 00155 FB 00157	CALLS #	3. DBG\$NMATCH 0. 138	
		03	0171	E8 0015A 31 0015D	BRW 3	48	224
			FC A6	DD 00160 138: 9F 00162	PUSHL PUSHAB DI	BG\$CS_LEFT_PAREN	226
		65 30		9F 00162 DD 00165 FB 00167 E9 0016A	CALLS #	3. DBG\$NMATCH	•
			4008 8F 02 6E 09 28248 8F 01	BB 0016D 145: fB 00171	PUSHR #	0, 18\$ ^M <r3,sp></r3,sp>	227
		68 1f	6E	D1 00174	CMPL P	2. DBG\$NSAVE_DECIMAL_INTEGER RIORITY, #31 5\$	227
		40 000	28248 8F	1B 00177 DD 00179	LOSHF W	164424	227
	00 04	A2	6E	FB 0017F E2 00182 15\$:	BBSS P	1, LIB\$SIGNAL RIORITY, 4(ADVERB_NODE), 16\$	227 227
			02 A6	DD 00187 165: 9F 00189 DD 0018C	PUSHL #	BG\$CS_COMMA	: 221
		65	03	FB 0018E	CALLS #	BGSCS_COMMA 3. DBGSNMATCH 0. 148	
		UY	03 50 01 FE A6	nn nn194 174.	PUSHL #	0, 148 1	227
		48	FE A6	DD 00199 FB 00198	PUSHL R	BG\$CS_RIGHT_PAREN	
		65	50	9f 00196 DD 00199 FB 00198 EB 0019E DD 001A1 31 001A7	BLBS R	3, DBG\$NMATCH 0, 20\$ 165840	220
		000	287D0 8F	31 001A7	BRW 3	5\$	228
		68 1F	4008 8F	BB 001AA 18\$: FB 001AE	CALLS #	2, DBG\$NSAVE_DECIMAL_INTEGER	228
			28248 8F	01 00181 18 00184	PUSHAB DI PUSHL RI CALLS MI BLBS RI BLBS RI BRW 31 PUSHL RI CALLS MI CALLS	S\$ M <r3,sp> 2. DBG\$NSAVE_DECIMAL_INTEGER RIORITY, #31 9\$ 164424</r3,sp>	228
	00 04	69 A2	10	18 00184 DD 00186 FB 0018C	CALLS #	I, LIDESIUNAL	229
	00 04	NC.	FE71	62 0018F 195: 31 00164 205: DD 00167 215:	BRW 1	RIGRITY, 4(ADVERB_NODE), 20\$	226 226 230
			B6 A6	DD 001C7 215: 9F 001C9 DD 001CC FB 001CE	PUSHL III	BGSCS STATE	230
		65	03	1B 001B4 DD 001B6 FB 001BC E2 001BF 191: 31 001C4 201: DD 001C7 211: 9F 001C9 DD 001CC FB 001CE D1 001D1 13 001D4	PUSHL R	DBGSNMATCH	•
		UI	03	13 00104	CMPL RIBEQL 2	26 "	•

BGTASK 104-000	DBG\$NPARSE_SHOW_TASK	16-Sep-1984 02:43:49 VAX- 14-Sep-1984 12:17:52 [DEB	1 Bliss-32 V4.0-742 Page 39 G.SRCJDBGTASK.B32;1 (8)
	49	0103 31 00106 03 DD 00109 225: PUSHL #3 01 FB 0010B 50 DO 0010E MOVL RO, ADVERB NOD 08 A2 9E 001E4 MOVB #10, (ADVE 01 DD 001EB MOVB #10, (ADVE 01 DD 001EB PUSHL #1 0048 8F BB 001ED PUSHR #1 0048 8F BB 001ED PUSHR #1 005 E8 001F1 CALLS #3, DBGSNM 50 E8 001F4 BLBS RO, 23\$ 01 DD 001F7 PUSHL #1 06 A6 9F 001F9 PUSHB #1 07 FC A6 9F 0020F 08 FB 0020F 09 E8 00201 00 CA 31 00204 01 DD 00207 23\$: PUSHL #1 01 DD 00214 24\$: PUSHL #1 05 E8 00218 06 12 00216 PUSHL #3 06 16 12 00216 PUSHL #1 06 12 00221 BNEQ 25\$ 01 DD 00227 25\$: PUSHL #1 06 12 00221 BNEQ 25\$ 01 DD 00227 25\$: PUSHL #1 06 12 00221 BNEQ 25\$ 01 DD 00227 25\$: PUSHL #1 06 12 00221 BNEQ 25\$ 01 DD 00227 25\$: PUSHL #1 06 12 00221 BNEQ 25\$ 01 DD 00227 25\$: PUSHL #1	2303
	5	01 FB 001DB CALLS #1, DBG\$GE 50 DO 001DE MOVL RO, ADVERB	TEMPMEM
		08 A2 9E 001E1 MOVL ADVERB_NOD 08 A2 9E 001E4 MOVAB 8(R2), LIN 0A 90 001E8 MOVB #10, (ADVE 01 DD 001EB PUSHL #1 0048 8F BB 001ED PUSHR #*M <r3,r6></r3,r6>	(LINK) 2304 B_NODE) 2306 2308
	04	08 A2 9E 001E4 MOVAB 8(R2), LIN 0A 90 001E8 MOVB #10, (ADVE 01 DD 001EB PUSHL #1	B_NODE) : 2308
	65	01 DD 001EB PUSHL #1 0048 8F BB 001ED PUSHR #^M <r3,r6> 03 FB 001F1 CALLS #3, DBG\$NM 50 E8 001F4 BLBS R0, 23\$</r3,r6>	TCH
	10	50 E8 001F4 BLBS RO. 23\$ 01 DD 001F7 PUSHL #1	: 2309
	4.5	06 A6 9F 001F9 PUSHAB DBG\$CS_EQU	•
	69	53 DD 001FC PUSHL R3 03 FB 001FE CALLS #3, DBG\$NM 50 EB 00201 BLBS R0, 23\$ 00CA 31 00204 BRW 34\$ 01 DD 00207 23\$: PUSHL #1	ICH
		00CA 31 00204 BRW 34\$ 01 DD 00207 23\$: PUSHL #1 FC A6 9F 00209 PUSHAB DBG\$CS_LEF	2311
	45	FC A6 9F 00209 PUSHAB DBG\$CS_LEF	•
	65	53 DD 0020C PUSHL R3 03 FB 0020E CALLS #3. DBG\$NM 50 E9 00211 BLBC R0, 30\$ 01 DD 00214 248: PUSHL #1	2319
		DF A6 9F 00216 PUSHAB DBG\$CS_RUN	ING
	65	03 FB 0021B CALLS #3, DBG\$NM 50 D1 0021E CMPL R0, #1	ITCH
	04 A2	53 DD 00219 PUSHL R3 03 FB 0021B CALLS #3, DBG\$NM 50 D1 0021E CMPL R0, #1 06 12 00221 BNEQ 25\$ 01 D0 00223 MOVL #1, 4(ADVE 44 11 00227 BRB 29\$ 01 DD 00229 25\$: PUSHL #1	B_NODE) 2320
		44 11 00227 BRB 29\$ 01 DD 00229 25\$: PUSHL #1	2322
		D9 A6 9F 0022R PUSHAR DRGSCS RFA	•
	65	D9 A6 9F 0022B PUSHAB DBG\$CS_REA 53 DD 0022E PUSHL R3 03 FB 00230 CALLS #3. DBG\$NM 50 D1 00233 CMPL R0. #1 06 12 00236 BNEQ 26\$	TCH
	04 A2	53 DD 0022E PUSHL R3 03 FB 00230 CALLS #3. DBG\$NM 50 D1 00233 CMPL R0, #1 06 12 00236 BNEQ 26\$ 02 D0 00238 MOVL #2-4(ADVE 2F 11 0023C BR8 291 01 DD 0023E 26\$: PUSHL #1 E7 A6 9F 00240 PUSHAB DBG\$CS_SUS 53 DD 00243 PUSHL R3	B_NODE) 2323
		2F 11 0023C BRB 29\$ 01 DD 0023E 26\$: PUSHL #1 E7 A6 9F 00240 PUSHAB DBG\$CS SUS	2325
		E7 A6 9F 00240 PUSHAB DBG\$CS_SUS	ENDED
	65	02 D0 00238	ТСН
	04 A2	06 12 0024B BNEQ 278 04 00 0024D MOVL #4, 4(ADVE	B_NODE) 2326
		04 00 0024D MOVL #4, 4 (ADVE 1A 11 00251 BRB 29\$ 01 DD 00253 278: PUSHL #1 F1 A6 9F 00255 PUSHAB DBG\$CS_TER	2328
		F1 A6 9F 00255 PUSHAB DBGSCS_TER 53 DD 0025B PUSHL R3 03 FB 0025A CALLS #3. DBGSNM	
	8	03 FB 0025A CALLS #3. DBG\$NM	ICH
	04 A2	03 FB 0025A CALLS #3 DBG\$NM 50 D1 0025D CMPL R0 #1 06 12 00260 BNEQ 28\$ 08 D0 00262 MOVL #8 4(ADVE 05 11 00266 BRB 29\$ 53 DD 00268 28\$: PUSHL R3 01 FB 0026A CALLS #1 DBG\$SY	B_NODE) 2329
	**	05 11 00266 BRB 29\$ 53 DD 00268 28\$: PUSHL R3	2334
	6/	53 DD 00268 288: PUSHL R3 01 FB 0026A CALLS #1. DBG\$SY 01 DD 0026D 298: PUSHL #1	TAX_ERROR 2338

08GTASK V04-000	DBG\$NPARSE_SHOW_TASK				18-	Sep-1984 0 Sep-1984 1	2:43: 2:17:	49 VAX-11 Bliss-32 V4.0-742 52 EDEBUG. SRCJDBGTASK.B32;1	Pag	(8)
			02	A6 53	9F 0026F DD 00272	PUS	HAB HL	DBG\$CS_COMMA		
		65 9A		50	FB 00274 E8 00277	CAL	LS	DBG\$CS_COMMA R3 #3. DBG\$NMATCH R0, 24\$ 17\$		
				FF17 01	31 0027A DD 0027D 30 9F 0027F	OS: BR	HL.	# 1	8	2339
		4.5	DF	53	DD 00282 FB 00284	PUS	HL	DBG\$CS_RUNNING		
		65		50	01 00287	CMF	L	#3. DBG\$NMATCH RO. #1		
	04	A2		91	00 00280	MOV	L	R3 W3. DBG\$NMAT(H R0, W1 31\$ W1. 4(ADVERB_NODE) 38\$		2348
			09	01	DD 00292 3 9F 00294	1\$: PUS	HL	M1 DBG\$CS_READY		2350
		65		53 03	DD 00297 FB 00299	PUS	HL LS	R3 #3. DBG\$NMATCH		
	04			06	D1 0029C 12 0029F	BNE	9	R3 #3. DBG\$NMATCH R0, #1 32\$ #2, 4(ADVERB_NODE) 38\$		2761
	04	A2		50	11 002A1	BRE 28: PUS	L	W2 4(ADVERB_NODE)		2351
			E7	A6	DD 002A7 3 9F 002A9 DD 002AC FB 002AE	PUS	HAB	DBG\$CS SUSPENDED		2353
		65		63 50	FB 002AE D1 002B1	CAL	LS	#3. DBG\$NMATCH		
	04	A2		06	12 002B4 00 002B6	BNE	L	R3 #3. DBG\$NMAT(H R0, #1 33\$ #4, 4(ADVERB_NODE) 38\$		2354
				653061216530620165306481655 650500704505005045050040450	D1 002B1 12 002B4 D0 002B6 11 002BA DD 002BC 3	38: BR8	HL	(7)		2356
		45	f1	53	DD 002BC 3 9F 002BE DD 002C1 FB 002C3	PUS	HL	DBG\$CS_TERMINATED R3 #3. DRG\$NMATCH		
		65			D1 002C6 12 002C9	CMP	1	#3, DBG\$NMATCH R0, #1 37\$ #8, 4(ADVERB_NODE) 38\$ #1, LIB\$SIGNAL 38\$ #5		
	04	A2		08	00 002CB	MOV	Ī	#8, 4(ADVERB_NODE)		2357
		69	00028000	8F 01	DO 002CB 11 002CF DD 002D1 3 FB 002D7 3	48: PUS 58: CAL	HL LS	#164048 #1, LIB\$SIGNAL		2366
				28 05	11 002DA DD 002DC 3	68: PUS	HL	38 8 #5		2185 2373
		48	BC	53	DD 002DC 36 9F 002DE DD 002E1 FB 002E3 D1 002E6	PUS	HAB	DBGSCS_STATISTICS		
		65		50	D1 002E6	CMP	[[RO, #1		
		67		03	12 002E9 DD 002EB FB 002ED DO 002F0 DO 002F3 9E 002F6 90 002FA 11 002FD	PUS	HL	#3 #1. DRGSGET TEMPMEM		2375
		67 52 64 54		50 52	DO 002F0 DO 002F3	MOV	Ĺ	RO, ADVERB NODE ADVERB NODE, (LINK)		2376
		54 62	08	A2 08	96 002F6 90 002FA	MOV	AB B	8(R2) LINK #11, (ADVERB_NODE)		2377
				53058020A50510055A0050	11 002FD DD 002FF 3	78: PUS	HL	38 \$ R3		2376 2377 2378 2185 2385
		6A		FD31	DD 002C1 FB 002C3 D1 002C6 12 002C9 D0 002CF DD 002D1 FB 002D2 DD 002D2 DD 002D2 DD 002E6 DD 002E6 DD 002E6 DD 002F6 DD 002F6 DD 002F6 DD 002F6 DD 002F6 DD 002F6 DD 002F6 DD 002F7 DD	88: BR6 98: CLR	r2	DBG\$CS_STATISTICS R\$ #3, DBG\$NMATCH R0, #1 37\$ #1, DBG\$GET TEMPMEM R0, ADVERB NODE ADVERB_NODE, (LINK) 8(R2), LINK #11, (ADVERB_NODE) 38\$ R\$ #1, DBG\$SYNTAX_ERROR 1\$ (LINK)		2180

DBGTASK V04-000	DBG\$NPARSE_SHOW_TASK		H B 16-Sep-1984 02:43:49 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:17:52 [DEBUG.SRC]DBGTASK.B32;1	Page 41 (8)
	54 08	04 65 47 AC 67 52 64 54 08	01 DD 00309 A6 9F 0030B 53 DD 0030E PUSHL R3 03 FB 00310 CALLS #3, DBG\$NMATCH 50 E6 00315 BLBS R0, 41\$ ADDL3 #8, VERB_NODE, LINK 04 DD 0031B O1 FB 0031D CALLS #1, DBG\$GET_TEMPMEM MOVL R0, NOUN_NODE S2 DO 00323 MOVL R0, NOUN_NODE, (LINK) A2 9E 00326 MOVAB B(R2), LINK PUSHL #1 PUSHL #1 PUSHL #1 PUSHL #1 PUSHL NOUN_NODE NOUN_NODE O0 9A 0032E MOVZBL DBG\$GB_RADIX, -(SP)	2394 2397 2404 2405 2406 2411
	0000000G	02 65 00	52 DD 0032C	2417
		65 05 6A	A6 9F 0034D PUSHAB DBG\$CS_CR 53 DD 00350 PUSHL R3 03 FB 00352 CALLS #3, DBG\$NMATCH 50 E8 00355 BLBS R0, 41\$ 53 DD 00358 PUSHL R3 01 FB 0035A CALLS #1, DBG\$SYNTAX_ERROR 04 0035D 41\$: RET	2421 2427

; Routine Size: 862 bytes, Routine Base: DBG\$CODE + 07CE

; 1231 2428 1



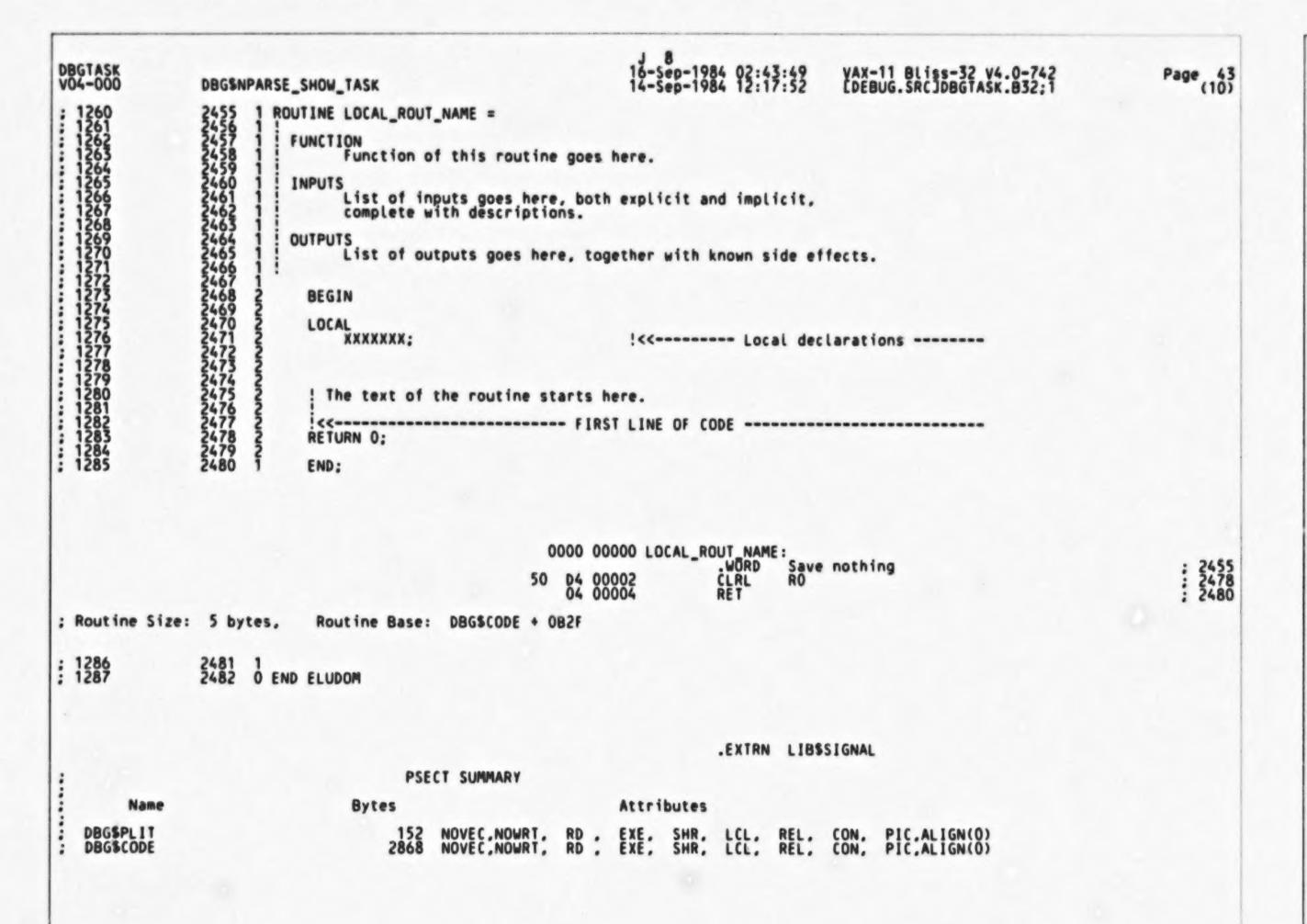
04 00002

Routine Base: DBG\$CODE + OB2C

; Routine Size: 3 bytes.

.WORD Save nothing

: 2429



DBGTASK V04-000	DBG\$NPARSE_SHOW_TASK			K 8 16-Sep-1984 14-Sep-1984	02:43:49	VAX-11 Bliss-32 V4.0-742 CDEBUG.SRCJDBGTASK.B32;1	Page 44 (10)
:	Library Sta	tistics					
file		Total	Symbols Loaded	Percent	Pages Mapped	Processing Time	
_\$255\$DUA28:[1 -\$255\$DUA28:[1 -\$255\$DUA28:[1	SYSLIBJLIB.L32:1 DEBUG.OBJJSTRUCDEF.L32:1 DEBUG.OBJJDBGLIB.L32:1	18619 32 1545	31	0	1000 97	00:01.9 00:00.2 00:02.0	
"DESSENDATE : FI	ו : 22 זיי בחול או בחר רפחי מחפשת	/10			**	00.00.2	

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:DBGTASK/QBJ=OBJ\$:DBGTASK MSRC\$:DBGTASK/UPDATE=(ENH\$:DBGTASK)

; Size: 2868 code + 152 data bytes ; Run Time: 00:52.7 ; Elapsed Time: 00:58.7 ; Lines/CPU Min: 2828 ; Lexemes/CPU-Min: 16781 ; Memory Used: 451 pages ; Compilation Complete

_\$255\$DUA28:[DEBUG.OBJ]DBGMSG.L32:1 _\$255\$DUA28:[DEBUG.OBJ]DBGGEN.L32:1 0096 AH-BT13A-SE

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